

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: CHPCR-US
Latitude: 40° 06' 49.10" N and
Longitude: 79° 23' 40.12" W
Grid Coordinate: 18C
Surface Elevation: 1734'

Description of Sample Point: Upstream Champion Creek (38337)
Existing use(s): CWF
Planned future use(s): Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
11/13/2012	22	7.1	7.5	10	133	-119	0.78	0.60	<0.05	78	<5	NA	NA	NA	1770
12/05/2012	36	6.9	7.0	8	136	-109	0.80	0.61	<0.05	54	<5	NA	NA	NA	1970
01/30/2013	56	7.1	7.5	14	84	-67	0.27	0.21	0.06	43	<5	NA	NA	NA	2550
02/15/2013	33	7.3	6.7	7	85	-59	0.41	0.41	<0.05	46	<5	NA	NA	NA	2840
03/05/2013	37	7.9	7.3	7	94	-76	4.70	0.57	4.84	45	103	NA	NA	NA	3350
04/10/2013	15	7.1	7.0	16	103	-69	0.86	0.61	0.06	46	<5	NA	NA	NA	2910
09/30/2013	17	7.2	7.3	19	174	-146	1.66	1.58	<0.05	38	<5	NA	NA	NA	2650
02/02/2017	12	6.9	7.8	4	95	-77	0.45	0.33	<0.05	63	<5	NA	NA	NA	5110
05/08/2017	175	7.4	7.6	13	132	-107	0.17	0.10	<0.05	47	3	NA	NA	NA	1130
08/07/2017	200	7.1	7.1	17	160	-135	2.20	1.34	<0.05	15	94	819	NA	NA	1530
11/14/2017	60	7.2	7.8	8	142	-122	0.46	0.37	<0.05	54	5	718	NA	NA	1340
02/02/2018	68	7.8	7.4	3	93	-67	0.25	0.16	<0.05	58	4	4784	NA	NA	8450
04/17/2018	247	7.1	7.7	11	74	-48	0.23	0.09	0.14	36	7	2500	NA	NA	4620
08/24/2018	50	7.6	7.6	10	204	-175	3.26	2.13	<0.05	16	65	1059	NA	NA	1910
11/13/2018	125	7.6	7.3	9	100	-83	1.91	0.43	0.32	27	18	544	NA	NA	1040
01/11/2019	748	7.9	6.6	3	97	-73	0.54	0.20	0.06	34	60	NA	NA	NA	1840
04/12/2019	218	7.2	7.0	18	100	-84	0.61	0.37	<0.05	33	6	NA	NA	NA	2730
07/19/2019	56	7.4	7.6	24	156	-136	0.63	0.54	<0.05	23	7	NA	NA	NA	1480
10/08/2019	224	7.2	7.6	16	165	-151	0.78	1.22	<0.05	38	<2	NA	NA	NA	2160
02/06/2020	75	6.6	7.8	9	84	-71	0.37	0.16	0.06	35	2	NA	NA	NA	2140
04/02/2020	75	7.0	7.3	9	107	-88	0.15	0.09	0.05	28	5	NA	NA	NA	1410
07/01/2020	9	6.9	7.7	24	179	-162	1.62	5.90	<0.05	6	21	NA	NA	NA	3250
10/05/2020	28	7.3	7.4	14	163	-146	2.77	5.26	0.05	24	12	NA	NA	NA	3770
01/15/2021	56	7.0	7.5	6	73	-59	0.92	0.55	0.13	45	4	NA	NA	NA	3270
04/01/2021	336	7.8	7.9	14	108	-37	<0.925	0.09	<0.378	34	<1.6	NA	NA	NA	2300
07/14/2021	374	7.7	7.9	22	91	-76	0.43	0.12	0.10	32	3	NA	NA	NA	1100

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: CHPCR-M1
Latitude: 40° 06' 06.09" N and
Longitude: 79° 23' 45.11" W
Grid Coordinate: 14C
Surface Elevation: 1634'

Description of Sample Point: Midstream Champion Creek (38337)
Existing use(s): CWF
Planned future use(s): Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
11/06/2012	2244	6.6	6.5	7	18	0	0.17	0.08	0.10	15	<5	NA	NA	NA	116
12/05/2012	1002	7.9	6.4	7	29	-9	0.54	0.07	0.27	13	<5	NA	NA	NA	162
01/14/2013	4753	6.7	6.6	11	18	-4	0.21	0.05	0.15	14	<5	NA	NA	NA	128
02/15/2013	873	7.9	6.2	7	21	0	0.15	0.07	0.09	15	<5	NA	NA	NA	195
03/29/2013	1795	7.9	6.3	13	12	5	0.18	<0.02	0.12	11	<5	NA	NA	NA	107
04/19/2013	701	7.2	6.7	17	21	-5	0.23	0.05	0.11	14	5	NA	NA	NA	179
09/30/2013	112	7.6	7.0	18	47	-26	0.27	0.16	<0.05	17	<5	NA	NA	NA	264
02/02/2017	785	7.2	6.9	5	22	-5	0.14	0.08	0.07	16	<5	NA	NA	NA	324
05/08/2017	1795	6.9	6.6	13	20	1	0.22	0.05	0.13	14	12	NA	NA	NA	109
08/07/2017	1000	7.6	6.4	18	38	-18	0.31	0.19	0.09	12	15	84	NA	NA	167
11/14/2017	1500	6.9	6.9	7	28	-13	0.15	0.07	0.05	13	<2	77	NA	NA	130
02/05/2018	3490	8.0	7.0	3	24	-5	0.18	0.08	0.14	145	5	223	NA	NA	419
04/17/2018	1200	6.7	6.8	6	11	6	0.28	0.05	0.19	13	6	80	NA	NA	129
08/31/2018	1500	7.5	6.8	24	66	-40	0.38	0.19	0.09	22	3	179	NA	NA	308
11/15/2018	470	8.5	6.4	6	12	5	0.50	0.04	0.33	9	16	42	NA	NA	77
01/11/2019	229	8.6	6.1	1	10	10	<0.05	<0.02	<0.05	10	11		NA	NA	87
04/12/2019	536	8.4	6.6	20	11	3	0.10	<0.02	0.09	9	14	NA	NA	NA	107
07/19/2019	523	7.9	6.6	24	10	2	0.17	<0.02	0.14	9	11	NA	NA	NA	97
10/08/2019	37	7.6	7.0	15	33	-21	0.15	<0.02	0.12	11	6	NA	NA	NA	149
02/06/2020	299	6.8	6.7	10	5	7	0.11	<0.02	0.26	9	6	NA	NA	NA	106
04/02/2020	224	7.2	6.4	10	6	8	<0.05	<0.02	<0.05	9	7	NA	NA	NA	96
07/01/2020	2	7.0	6.9	23	14	-5	0.25	0.03	0.19	8	50	NA	NA	NA	134
10/06/2020	2	8.6	7.3	17	12	2	0.10	<0.02	0.09	10	<2	NA	NA	NA	125
01/08/2021	261	8.5	6.5	4	3	8	<0.05	<0.02	<0.05	8	2	NA	NA	NA	108
04/05/2021	897	8.2	7.2	15	<20	20	<0.925	<0.0620	<0.378	<10	<1.60	NA	NA	NA	95
07/09/2021	393	6.7	7.5	20	30	-10	0.80	0.05	0.40	6	13	NA	NA	NA	160

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

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Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: 28013-01
Latitude: 40° 07' 23.36" N and
Longitude: 79° 21' 29.41" W
Grid Coordinate: 21M
Surface Elevation: 1555'

Description of Sample Point: UNT #10 of Fourmile Run (43610)
Downstream
Existing use(s) TSF
Planned future use(s) Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/30/2013	670	6.8	6.7	12	18	0	0.17	<0.02	0.12	12	<5	NA	NA	NA	94
02/15/2013	210	7.8	6.1	8	18	2	0.08	<0.02	0.06	12	<5	NA	NA	NA	77
03/05/2013	524	7.5	6.5	6	16	2	0.07	<0.02	<0.05	13	<5	NA	NA	NA	83
04/19/2013	168	6.7	6.6	17	19	0	0.29	<0.02	0.19	12	5	NA	NA	NA	84
05/23/2013	75	7.9	6.5	22	29	-4	0.21	0.03	0.11	11	6	NA	NA	NA	96
06/10/2013	374	7.6	7.1	20	29	-1	1.49	0.07	1.47	8	57	NA	NA	NA	89
09/30/2013	23	7.6	6.6	19	27	-6	0.11	<0.02	0.06	11	<5	NA	NA	NA	108
02/02/2017	70	7.0	6.8	5	16	-3	0.16	<0.02	<0.05	12	<5	NA	NA	NA	80
05/08/2017	281	7.2	6.8	13	30	-10	0.27	0.06	0.16	12	7	NA	NA	NA	121
08/07/2017	200	7.1	6.5	18	40	-17	0.41	0.18	0.11	9	37	59	NA	NA	120
11/14/2017	4	7.7	6.8	7	34	-17	0.30	0.27	0.05	11	7	62	NA	NA	103
02/02/2018	262	6.7	6.9	3	23	-5	0.10	<0.02	0.07	11	3	65	NA	NA	76
04/17/2018	196	6.5	6.8	9	10	6	0.32	0.02	0.21	11	6	51	NA	NA	65
08/24/2018	13	8.5	7.1	14	57	-36	0.63	0.26	0.10	8	19	91	NA	NA	163
11/15/2018	563	8.4	6.5	6	15	4	0.42	0.04	0.21	10	12	35	NA	NA	68
01/18/2019	499	8.3	6.3	4	16	0	0.12	<0.02	0.08	10	13	NA	NA	NA	75
04/18/2019	748	7.8	6.8	18	13	0	0.20	<0.02	0.11	11	16	NA	NA	NA	71
09/06/2019	130	5.6	6.5	19	30	-13	0.21	<0.02	0.09	10	7	NA	NA	NA	105
10/15/2019	75	7.5	7.2	14	34	-24	0.14	<0.02	0.06	11	14	NA	NA	NA	112
02/12/2020	50	8.6	6.9	7	10	3	0.10	<0.02	0.07	9	12	NA	NA	NA	60
04/20/2020	598	6.7	6.8	15	10	-2	0.20	<0.02	0.12	9	15	NA	NA	NA	65
07/01/2020	12	8.4	7.4	24	32	-24	0.21	0.03	0.09	12	10	NA	NA	NA	115
10/05/2020	3	8.1	7.2	13	42	-30	0.24	0.05	0.13	11	<2	NA	NA	NA	127
01/15/2021	196	7.6	7.0	7	15	-5	<0.05	<0.02	<0.05	11	<2	NA	NA	NA	83
04/05/2021	261	8.2	7.3	15	<20	1	<0.925	<0.0620	<0.378	11	4	NA	NA	NA	68
07/14/2021	299	7.3	7.6	22	24	-10	0.31	0.03	0.20	10	20	NA	NA	NA	84

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: 50550-01
Latitude: 40° 07' 20.37" N and
Longitude: 79° 21' 28.98" W
Grid Coordinate: 21M
Surface Elevation: 1550'

Description of Sample Point: UNT #9 to Fourmile Run (43609)
Downstream
Existing use(s) TSF
Planned future use(s) Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/30/2013	670	7.2	6.9	12	25	-8	0.30	0.05	0.17	12	8	NA	NA	NA	223
02/15/2013	262	7.4	6.3	8	27	-4	0.12	<0.02	0.07	14	<5	NA	NA	NA	192
03/05/2013	349	7.4	6.6	5	25	-7	0.08	<0.02	<0.05	14	<5	NA	NA	NA	193
04/19/2013	231	6.9	6.9	17	35	-17	0.25	0.03	0.14	13	<5	NA	NA	NA	191
05/23/2013	58	7.8	6.6	22	48	-29	0.17	0.04	0.06	11	<5	NA	NA	NA	186
06/10/2013	471	7.6	6.8	20	52	-33	0.36	0.07	0.27	9	14	NA	NA	NA	186
09/30/2013	28	7.5	7.1	19	60	-36	0.07	<0.02	<0.05	9	<5	NA	NA	NA	194
02/02/2017	112	7.0	7.1	6	23	-10	0.14	0.03	0.06	13	<5	NA	NA	NA	182
05/08/2017	224	7.9	6.5	13	17	2	0.17	<0.02	0.10	12	16	NA	NA	NA	67
08/07/2017	375	7.3	6.4	18	37	-16	0.30	0.08	0.14	9	19	61	NA	NA	117
11/14/2017	1100	8.3	6.9	8	31	-15	0.17	0.03	0.05	11	4	63	NA	NA	105
02/02/2018	262	7.0	7.1	3	32	-8	0.19	0.05	0.10	12	4	123	NA	NA	208
04/17/2018	390	6.8	7.0	7	25	-2	0.35	0.05	0.25	11	9	90	NA	NA	132
08/24/2018	40	8.5	7.1	11	54	-30	0.44	0.25	0.08	8	10	88	NA	NA	164
11/15/2018	902	8.6	6.6	8	27	-8	0.20	0.06	0.07	12	3	63	NA	NA	119
01/18/2019	522	8.1	6.4	3	27	-8	0.12	<0.02	<0.05	11	<2	NA	NA	NA	187
04/18/2019	515	7.8	7.0	18	28	-16	0.25	0.02	0.13	12	12	NA	NA	NA	141
09/06/2019	65	8.2	6.7	20	57	-35	0.12	<0.02	<0.05	8	3	NA	NA	NA	187
10/15/2019	449	7.6	7.6	15	70	-58	0.12	<0.02	<0.05	8	3	NA	NA	NA	220
02/12/2020	37	8.3	7.2	7	16	-4	0.18	<0.02	0.10	10	7	NA	NA	NA	125
04/20/2020	374	6.7	7.0	15	21	-12	0.30	0.03	0.16	10	9	NA	NA	NA	118
07/01/2020	22	7.4	7.7	25	57	-45	0.38	0.07	0.21	8	92	NA	NA	NA	191
10/05/2020	22	8.0	7.6	13	65	-51	0.15	0.03	0.08	7	25	NA	NA	NA	211
01/15/2021	125	7.7	7.1	6	21	-12	0.09	0.03	<0.05	11	<2	NA	NA	NA	255
05/06/2021	187	7.8	7.2	13	<2	-10	0.44	0.03	0.12	9	<4	NA	NA	NA	65
07/14/2021	468	7.2	7.4	20	63	-48	1.13	0.34	0.20	<5	44	NA	NA	NA	229

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator: <u>LCT Energy, LP</u>	Monitoring Point I.D.: <u>PZ-7D</u>	Description of Sample Point: <u>Piezometer</u>
Operation Name: <u>Rustic Ridge #1 Expansion</u>	Latitude: <u>40° 08' 47.01"</u> <u>N</u> and	
Permit No: <u>65131301</u>	Longitude: <u>79° 20' 49.37"</u> <u>W</u>	Existing use(s) <u></u>
Township: <u>Donegal/Saltlick</u>	Grid Coordinate: <u></u>	Planned future use(s) <u></u>
County: <u>Westmoreland/Fayette</u>	Surface Elevation: <u>1640.64</u> <u>feet</u>	If sampling point is a well, when was it drilled: <u></u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/10/2020	1462.39														
03/12/2020	1462.54														
06/04/2020	1462.86														
08/17/2020	1462.69														
09/20/2021	1462.44														

Comments: NA=Not applicable; ND=Not Determined

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
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Operator: <u>LCT Energy, LP</u>	Monitoring Point I.D.: <u>PZ-9D</u>	Description of Sample Point: <u>Piezometer</u>
Operation Name: <u>Rustic Ridge #1 Expansion</u>	Latitude: <u>40° 07' 11.72"</u> <u>N</u> and	
Permit No: <u>65131301</u>	Longitude: <u>79° 23' 49.61"</u> <u>W</u>	Existing use(s) <u></u>
Township: <u>Donegal/Saltlick</u>	Grid Coordinate: <u>20B</u>	Planned future use(s) <u></u>
County: <u>Westmoreland/Fayette</u>	Surface Elevation: <u>1744.06</u> <u>feet</u>	If sampling point is a well, when was it drilled: <u></u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
04/27/2020	1681.06														
06/04/2020	1681.91														
08/17/2020	1677.59														
11/16/2020	1678.51														
09/13/2021	1678.76														

Comments: NA=Not applicable; ND=Not Determined

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W52</u>	Description of Sample Point:	<u>Don Christian Church, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 40.70"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 45.71"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1848 '</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
10/19/2012	1757	6.9	8.0	14	105	-91	0.19	0.06	<0.05	15	<5	NA	NA	NA	309
12/12/2012	1760	7.4	7.4	14	99	-76	<0.05	0.06	<0.05	16	<5	NA	NA	NA	304

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W93</u>	Description of Sample Point:	<u>G. Kalp, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 30.77"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 37.96"</u>	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16H</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1790'</u>	If sampling point is a well, when was it drilled:	<u>1951</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
11/05/2012	No Access	7.4	7.4	12	85	-71	0.63	0.22	<0.05	16	<5	NA	NA	NA	327
12/27/2012	No Access	7.0	7.7	9	91	-73	0.47	0.26	<0.05	18	<5	NA	NA	NA	309
10/09/2013	No Access	7.0	6.9	17	90	-58	0.37	0.23	<0.05	16	<5	NA	NA	NA	305

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W193</u>	Description of Sample Point:	<u>W. Aldom, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 47.23"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 09.60"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18E</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1851</u>	If sampling point is a well, when was it drilled:	<u>1960 's</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/03/2012	1835	6.0	6.0	18	27	-7	0.08	<0.02	<0.05	19	<5	NA	NA	NA	428
01/09/2013	1843	5.6	6.5	14	31	-14	0.25	<0.02	<0.05	23	<5	NA	NA	NA	270
10/01/2013	1836	6.0	6.1	20	30	-8	0.05	<0.02	<0.05	17	<5	NA	NA	NA	363

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W198</u>	Description of Sample Point:	<u>J. Shaffer Trustee, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 42.26"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 52.32"</u>	Existing use(s)	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1827</u>	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/04/2012	1781	7.4	7.4	19	150	-134	<0.05	<0.02	<0.05	12	<5	NA	NA	NA	397
01/17/2013	1783	7.0	7.8	12	152	-133	<0.05	<0.02	<0.05	12	<5	NA	NA	NA	381
10/09/2013	1781	7.2	7.3	22	143	-118	0.10	<0.02	<0.05	10	<5	NA	NA	NA	365

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W202</u>	Description of Sample Point:	<u>P. King, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 41.41"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 03.44"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1813'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/11/2012	No Access	6.9	6.2	13	23	-3	0.11	<0.02	0.08	19	<5	NA	NA	NA	211
07/01/2013	No Access	6.8	6.5	19	20	-6	0.13	<0.02	0.05	25	<5	NA	NA	NA	214
10/01/2013	No Access	6.7	6.3	20	28	-8	0.10	0.02	<0.05	22	<5	NA	NA	NA	233

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W209</u>	Description of Sample Point:	<u>J. Shaffer, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 42.57"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 57.00"</u> W	Existing use(s)	<u>Domestic/Commercial</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1796'</u>	If sampling point is a well, when was it drilled:	<u>1920's</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/11/2012	1783	7.6	6.2	16	32	-11	0.23	<0.02	0.09	30	5	NA	NA	NA	632
01/24/2013	1782	6.9	6.6	7	33	-16	<0.05	<0.02	<0.05	26	<5	NA	NA	NA	700
10/09/2013	*	5.9	6.3	21	37	-10	0.07	<0.02	<0.05	21	<5	NA	NA	NA	622
	* 10/09/13 Mr. Shaffer was unable to lift concrete slab due to an injured back. I was unable to lift it. No SWL taken														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: S210
Latitude: 40° 06' 42.14" N and
Longitude: 79° 22' 59.67" W
Grid Coordinate: 17F
Surface Elevation: 1780'

Description of Sample Point: J. Shaffer, Spring
Existing use(s) None
Planned future use(s) Animals/Gardening
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/11/2012	No Outflow	7.8	6.4	15	29	-7	0.07	<0.02	0.06	20	<5	NA	NA	NA	286
01/24/2013	No Outflow	7.0	6.7	5	24	-7	<0.05	<0.02	<0.05	21	<5	NA	NA	NA	413
10/09/2013	No Access	6.8	6.6	19	42	-19	<0.05	<0.02	<0.05	20	<5	NA	NA	NA	486
04/12/2018	No Access	6.1	7.1	15	32	-9	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	483
04/20/2018	<1	No sample taken													
05/09/2018	<1	6.2	6.8	14	39	-15	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	537
06/01/2018	<1	6.0	6.4	21	29	-9	<0.05	<0.02	<0.05	19	<2	NA	NA	NA	494
07/20/2018	<1	6.8	6.6	21	44	-26	0.08	0.04	<0.05	21	<2	NA	NA	NA	468
08/08/2018	<1	6.9	6.8	20	47	-34	0.05	0.06	<0.05	20	4	NA	NA	NA	516
09/13/2018	2	5.7	6.6	23	30	-20	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	370
10/04/2018	1	6.5	6.6	20	39	-22	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	377
11/07/2018	1	6.6	6.7	14	47	-35	<0.05	<0.02	<0.05	16	<2	NA	NA	NA	337
12/11/2018	1	6.3	6.5	14	37	-18	<0.05	<0.02	<0.05	16	3	NA	NA	NA	386
01/18/2019	<1	7.0	6.4	9	35	-15	<0.05	<0.02	--	17	<2	NA	NA	NA	389
Not applicable;	No Access	6.3	6.9	11	44	-29	0.05	0.04	<0.05	22	2	NA	NA	NA	578
12/30/2019	No Access	6.3	7.0	12	46	-36	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	481
03/16/2020	No Access	7.9	6.6	11	35	-19	<0.05	<0.02	<0.05	18	10	NA	NA	NA	453
06/04/2020	No Access	7.0	6.5	20	45	-27	0.19	0.05	<0.05	19	6	NA	NA	NA	494
10/15/2020	Need to Pump														
09/29/2020	No Outflow	6.6	7.1	18	39	-27	0.22	0.11	<0.05	18	2	NA	NA	NA	572
11/13/2020	ipped from sprin	6.4	6.4	13	49	-29	<0.05	<0.02	<0.05	20	3	NA	NA	NA	495
02/08/2021	rozen-No Overflow														
06/02/2021	No visible flow	6.5	7.1	18	38	-32	<0.185	<0.0124	<0.0756	15.5	<2.5	NA	NA	NA	622

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W211</u>	Description of Sample Point:	<u>Bruno Family Trust, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 30.19"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 30.77"</u> W	Existing use(s)	<u>Abandoned</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16H</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1719'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/13/2013	Buried														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W213</u>	Description of Sample Point:	<u>Bruno Family Trust, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 31.22"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 28.83"</u> W	Existing use(s)	<u>Abandoned</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1710'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/13/2013	No Access														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W214</u>	Description of Sample Point:	<u>Bruno Family Trust, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 31.49"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 28.66"</u> W	Existing use(s)	<u>Abandoned</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1711'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/13/2013	No Access														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W215</u>	Description of Sample Point:	<u>Bruno Family Trust, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 31.46"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 26.79"</u> W	Existing use(s)	<u>Abandoned</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1671'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/13/2013	Buried														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: S241
Latitude: 40° 06' 39.22" N and
Longitude: 79° 24' 04.12" W
Grid Coordinate: 17A
Surface Elevation: 1734 '

Description of Sample Point: P. Cunningham, Spring
Existing use(s) Domestic/Agriculture
Planned future use(s) Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/21/2012	33	6.3	6.3	13	16	-2	0.16	<0.02	0.11	11	<5	NA	NA	NA	65
01/25/2013	6	6.8	6.6	7	24	-7	0.15	0.05	0.06	12	<5	NA	NA	NA	82
10/03/2013	1	5.9	6.2	17	24	-2	<0.05	<0.02	<0.05	11	<5	NA	NA	NA	71
10/04/2013	2	6.4	6.4	19	49	-24	0.51	0.20	0.10	11	<5	NA	NA	NA	117
04/04/2018	27	5.3	6.4	11	7	8	<0.05	<0.02	0.06	10	<2	NA	NA	NA	59
05/10/2018	5	5.4	6.6	19	6	9	<0.05	<0.02	<0.05	10	<2	NA	NA	NA	53
06/21/2018	11	6.0	6.1	19	8	5	0.23	<0.02	<0.05	10	4	NA	NA	NA	55
07/12/2018	2	5.9	6.2	22	10	3	<0.05	<0.02	<0.05	10	4	NA	NA	NA	56
08/21/2018	4	5.4	6.4	19	10	-2	<0.05	<0.02	<0.05	9	<2	NA	NA	NA	58
09/14/2018	13	5.1	6.1	22	10	-1	<0.05	<0.02	<0.05	9	<2	NA	NA	NA	59
10/05/2018	11	5.7	6.0	15	8	3	<0.05	<0.02	<0.05	9	<2	NA	NA	NA	60
11/05/2018	14	5.7	6.0	15	8	4	<0.05	<0.02	<0.05	9	3	NA	NA	NA	59
12/10/2018	6	5.8	6.1	10	8	4	<0.05	<0.02	<0.05	9	2	NA	NA	NA	63
01/22/2019	18	6.0	5.9	10	7	9	<0.05	<0.02	--	9	<2	NA	NA	NA	56
04/03/2019	5	5.6	6.2	15	6	7	0.05	<0.02	<0.05	9	4	NA	NA	NA	57
09/13/2019	<1	5.8	6.3	21	11	9	<0.05	<0.02	<0.05	9	8	NA	NA	NA	62
12/27/2019	5	5.9	6.0	14	8	1	<0.05	<0.02	<0.05	9	2	NA	NA	NA	63
03/26/2020	12	5.8	6.1	13	8	9	<0.05	<0.02	<0.05	8	<2	NA	NA	NA	56
06/03/2020	<1	6.9	6.1	21	8	2	<0.05	<0.02	<0.05	9	<2	NA	NA	NA	66
09/30/2020	<1	8.0	7.0	16	23	-12	0.25	0.04	<0.05	9	2	NA	NA	NA	109
11/20/2020	1	5.8	6.6	16	10	-2	<0.05	<0.02	<0.05	8	<2	NA	NA	NA	62
02/08/2021	2	7.3	6.8	12	10	0	<0.05	<0.02	<0.05	9	<2	NA	NA	NA	60
06/10/2021	2	6.1	6.7	21	31	-3.29	<0.185	<0.0124	<0.0756	9	<2.50	44	NA	NA	89

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S250</u>	Description of Sample Point:	<u>B. Snyder, Spring</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 55.73"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 11.16"</u>	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>190</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1798</u>	If sampling point is a well, when was it drilled:	<u>NA</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/03/2013	3	6.7	7.8	16	105	-90	<0.05	<0.02	<0.05	17	<5	NA	NA	NA	247
06/14/2013	No Access	7.5	7.5	16	117	-91	<0.05	<0.02	<0.05	20	<5	NA	NA	NA	294
10/01/2013	No Access	7.7	7.3	20	121	-102	<0.05	<0.02	<0.05	21	<5	NA	NA	NA	266

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S251</u>	Description of Sample Point:	<u>B. Snyder, Spring</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 55.19"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 10.08"</u>	Existing use(s)	<u>Animals</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>180</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1792</u>	If sampling point is a well, when was it drilled:	<u>NA</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/03/2013	1	7.0	7.6	11	102	-85	<0.05	<0.02	<0.05	18	<5	NA	NA	NA	249
06/14/2013	<1	7.7	7.6	15	122	-99	0.05	<0.02	0.05	20	<5	NA	NA	NA	288
10/01/2013	<1	7.8	7.5	19	121	-98	<0.05	<0.02	<0.05	21	<5	NA	NA	NA	277

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P253</u>	Description of Sample Point:	<u>J. Rosmiller, Pond</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 51.90"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 21.03"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18E</u>	Existing use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1813'</u>	Planned future use(s)	<u>Barn</u>
				If sampling point is a well, when was it drilled:	<u>NA</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/03/2013	No Access	7.3	6.2	4	11	2	0.26	0.05	0.17	16	<5	NA	NA	NA	164
06/28/2013	No Access	6.5	6.8	21	15	-1	0.41	0.06	0.14	12	<5	NA	NA	NA	178
10/09/2013	No Access	7.0	6.4	18	18	5	0.28	0.03	0.10	9	9	NA	NA	NA	176

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W260</u>	Description of Sample Point:	<u>D. Donitzen, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 38.63"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 45.36"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Existing use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1845'</u>	Planned future use(s)	
				If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/04/2013	No Access	6.8	6.8	11	36	-19	0.50	0.15	<0.05	<5	<5	NA	NA	NA	81
02/15/2013	No Access	7.5	6.2	6	38	-9	0.43	0.27	<0.05	6	6	NA	NA	NA	81
10/14/2013	No Access	6.9	6.5	18	36	-14	6.87	0.26	0.35	6	15	NA	NA	NA	92

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W265</u>	Description of Sample Point:	<u>T. Donitzen, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 36.50"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 42.33"</u> W	Existing use(s)	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17H</u>	Planned future use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1846'</u>	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/07/2013	Buried														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W339</u>	Description of Sample Point:	<u>R. King, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 36.71"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 51.02"</u>	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1812'</u>	If sampling point is a well, when was it drilled:	<u>2003</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/14/2013	1788	6.7	6.1	9	32	-2	0.14	0.18	0.06	38	<5	NA	NA	NA	1010
06/17/2013	1788	6.1	6.3	20	41	-19	0.19	0.11	0.11	42	<5	NA	NA	NA	759
10/03/2013	No Access	5.9	6.0	17	37	-15	0.41	0.13	0.07	39	<5	NA	NA	NA	695

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W340</u>	Description of Sample Point:	<u>R. King, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 36.98"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 50.78"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1818'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/14/2013	*														
	*Not hooked up, cannot sample. Owner doesn't want SWL														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W344</u>	Description of Sample Point:	<u>R. May, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 47.36"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 48.96"</u>	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18B</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1742'</u>	If sampling point is a well, when was it drilled:	<u>1985</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/15/2013	No Access	7.5	7.0	14	128	-103	<0.05	<0.02	<0.05	9	<5	NA	NA	NA	357
04/08/2013	No Access	7.3	6.9	21	134	-102	<0.05	<0.02	<0.05	9	<5	NA	NA	NA	341
10/07/2013	No Access	7.1	7.3	21	126	-98	<0.05	<0.02	<0.05	9	<5	NA	NA	NA	327

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: S348
Latitude: 40° 06' 58.75" N and
Longitude: 79° 20' 47.76" W
Grid Coordinate: 19P
Surface Elevation: 1714

Description of Sample Point: G. Morton, Spring
Existing use(s): Domestic
Planned future use(s): Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/18/2013	No Access	6.7	6.3	9	28	-7	0.09	<0.02	0.07	13	<5	NA	NA	NA	99
04/08/2013	No Access	6.9	6.3	13	26	-1	0.09	<0.02	0.07	13	<5	NA	NA	NA	111
10/07/2013	3	6.5	6.4	17	48	-22	0.07	<0.02	0.12	10	<5	NA	NA	NA	140
05/16/2018	13	5.5	6.8	21	17	0	0.28	<0.02	0.23	11	<2	NA	NA	NA	90
06/12/2018	2	6.2	6.2	20	26	1	0.22	<0.02	0.13	11	<2	NA	NA	NA	90
07/18/2018	<1	6.8	6.6	21	27	-6	7.18	0.45	3.06	13	194	NA	NA	NA	93
08/13/2018	1	6.5	6.8	18	57	-44	0.12	<0.02	<0.05	12	2	NA	NA	NA	170
09/12/2018	1	5.7	6.9	19	34	-23	0.15	<0.02	0.13	10	3	NA	NA	NA	107
10/03/2018	1	6.2	6.5	18	37	-24	<0.05	<0.02	0.05	11	<2	NA	NA	NA	123
11/02/2018	1	6.1	6.4	14	31	-12	0.08	<0.02	0.08	12	3	NA	NA	NA	105
12/10/2018	1	6.3	6.6	7	26	-14	0.05	<0.02	0.07	13	<2	NA	NA	NA	99
01/22/2019	10	6.5	6.2	10	22	-3	0.17	<0.02	--	12	6	NA	NA	NA	100
04/03/2019	5	5.9	6.5	14	24	-12	0.09	<0.02	0.05	12	6	NA	NA	NA	98
09/13/2019	<1	6.2	6.7	22	47	-21	4.16	0.14	2.09	13	212	NA	NA	NA	165
Not applicable;	9	7.0	6.6	10	22	-11	0.15	<0.02	0.11	11	2	NA	NA	NA	96
03/26/2020	12	6.4	6.5	12	18	0	0.08	<0.02	0.05	11	<2	NA	NA	NA	97
06/04/2020	5	7.2	6.5	21	28	-11	0.53	0.03	0.29	13	84	NA	NA	NA	118
09/16/2020	<1	7.3	6.8	21	65	-52	0.16	<0.02	0.12	13	6	NA	NA	NA	193
11/13/2020	Damp - no sample														
02/08/2021	<1	7.4	7.3	12	24	-14	0.13	0.05	<0.05	13	<2	NA	NA	NA	257
06/15/2021	Damp - no sample														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W350</u>	Description of Sample Point:	<u>D. Kern, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 42.19"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 54.72"</u>	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17K</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1696</u>	If sampling point is a well, when was it drilled:	<u>1995</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/18/2013	No Access	7.1	6.8	10	77	-53	3.33	0.56	<0.05	5	7	NA	NA	NA	1280
04/08/2013	No Access	6.9	6.6	20	79	-49	1.84	0.52	<0.05	5	<5	NA	NA	NA	1230
10/07/2013	No Access	6.5	6.8	16	81	-53	3.53	0.50	<0.05	5	<5	NA	NA	NA	1320

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W361</u>	Description of Sample Point:	<u>C. Hixson, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 41.29"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 05.28"</u> W	Existing use(s)	<u>Back-up</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1816</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
02/21/2013	1785.8	7.9	6.3	13	21	-2	0.06	<0.02	<0.05	28	<5	NA	NA	NA	191
04/08/2013	1784.9	6.5	6.1	20	26	-6	0.08	0.03	<0.05	28	<5	NA	NA	NA	197
10/09/2013	1784.4	6.9	6.3	17	32	-8	<0.05	0.07	<0.05	19	<5	NA	NA	NA	236

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W409</u>	Description of Sample Point:	<u>R. Snyder, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 45.90"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 00.99"</u> W	Existing use(s)	<u>Garage</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1823'</u>	If sampling point is a well, when was it drilled:	<u>1913</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
04/30/2013	1815	6.4	6.5	14	40	-23	<0.05	0.03	<0.05	44	<5	NA	NA	NA	1030
06/03/2013	1801	6.2	6.5	19	42	-21	0.06	0.03	<0.05	44	<5	NA	NA	NA	901
10/03/2013	1814	6.2	6.3	17	40	-17	<0.05	<0.02	<0.05	61	<5	NA	NA	NA	1100

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W410</u>	Description of Sample Point:	<u>R. Snyder, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 45.70"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 59.27"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18F</u>	Planned future use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1812'</u>	If sampling point is a well, when was it drilled:	<u>1913</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
10/03/2013	1807	5.8	6.1	17	23	-3	<0.05	<0.02	<0.05	19	<5	NA	NA	NA	141
11/04/2013	1807	6.6	6.5	14	19	-7	<0.05	<0.02	<0.05	18	<5	NA	NA	NA	144

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: P421
Latitude: 40° 06' 44.24" N and
Longitude: 79° 23' 54.09" W
Grid Coordinate: 18B
Surface Elevation: 1719'

Description of Sample Point: J. Ritenour, Pond
Existing use(s): Recreation
Planned future use(s): Same
If sampling point is a well, when was it drilled: N/A

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
04/30/2013	20	7.8	6.7	18	19	-2	0.86	0.17	0.23	12	<5	NA	NA	NA	71
05/23/2013	15	7.3	6.3	21	25	-2	1.27	0.30	0.18	10	5	NA	NA	NA	79
10/09/2013	No Overflow	6.9	6.6	19	31	-5	0.70	0.09	0.14	8	<5	NA	NA	NA	94
08/27/2021	No Flow	7.60	7.51	27.8	30	-18	0.36	0.32	<0.1	8	3	NA	NA	NA	92
12/16/2021	No Flow	7.07	7.33	14.4	21	-2	0.15	0.04	<0.1	8	3	NA	NA	NA	86

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: S443
Latitude: 40° 06' 42.75" N and
Longitude: 79° 23' 01.38" W
Grid Coordinate: 17F
Surface Elevation: 1814'

Description of Sample Point: M. Archer, Spring
Existing use(s): Domestic
Planned future use(s): Same
If sampling point is a well, when was it drilled: N/A

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/10/2013	No Access	7.3	6.6	19	37	-17	<0.05	<0.02	<0.05	17	<5	NA	NA	NA	220
07/02/2013	No Access	7.1	7.9	25	85	-71	<0.05	<0.02	2.29	16	5	NA	NA	NA	233
10/10/2013	No Access	7.4	6.9	15	60	-37	<0.05	<0.02	<0.05	20	<5	NA	NA	NA	273
04/09/2018	3	5.2	6.7	8	8	17	0.05	<0.02	<0.05	17	<2	NA	NA	NA	179
05/10/2018	<1	6.2	6.6	17	6	13	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	178
06/08/2018	<1	5.5	6.0	21	6	14	<0.05	<0.02	<0.05	17	<2	NA	NA	NA	164
07/12/2018	<1	6.2	6.3	22	9	4	<0.05	<0.02	<0.05	19	7	NA	NA	NA	171
08/08/2018	<1	7.0	6.5	22	10	-2	<0.05	<0.02	<0.05	17	4	NA	NA	NA	197
09/12/2018	1	5.2	6.4	21	6	4	<0.05	<0.02	0.08	17	2	NA	NA	NA	146
10/04/2018	1	5.9	6.2	21	8	5	<0.05	<0.02	<0.05	18	<2	NA	NA	NA	165
11/02/2018	1	6.1	6.1	14	9	8	<0.05	<0.02	0.06	19	4	NA	NA	NA	154

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W446</u>	Description of Sample Point:	<u>G. Bader, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 36.22"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 48.85"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1825</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/10/2013	No Access	7.0	6.7	18	62	-38	<0.05	0.03	<0.05	23	<5	NA	NA	NA	342
07/22/2013	No Access	7.1	7.0	23	65	-46	<0.05	<0.02	<0.05	24	<5	NA	NA	NA	315
10/09/2013	No Access	7.0	6.7	18	78	-50	<0.05	0.08	<0.05	20	<5	NA	NA	NA	375

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W451</u>	Description of Sample Point:	<u>N. Hoffer, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 37.59"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 49.81"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1825</u>	If sampling point is a well, when was it drilled:	<u>1978</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/10/2013	No access	*													
	*Unable to sample; well collapsed														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W454</u>	Description of Sample Point:	<u>Shaffer III, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 47.62"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 10.55"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18E</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1852'</u>	If sampling point is a well, when was it drilled:	<u>1976</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/24/2013	No access	*													
	*Unable to sample; not hooked up														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: S459
Latitude: 40° 06' 31.74" N and
Longitude: 79° 22' 17.21" W
Grid Coordinate: 16I
Surface Elevation: 1616'

Description of Sample Point: M. Snyder, Spring
Existing use(s): None
Planned future use(s): Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/12/2013	4	7.0	6.6	19	88	-58	<0.05	<0.02	<0.05	41	<5	NA	NA	NA	2760
08/05/2013	3	6.8	6.9	21	113	-93	<0.05	<0.02	<0.05	72	6	NA	NA	NA	5030
04/10/2018	No access	6.2	7.1	11	37	-5	<0.05	<0.05	<0.05	35	<2	NA	NA	NA	4370
04/20/2018	2	No sample taken													
05/09/2018	1	6.8	6.1	16	14	4	<0.05	<0.02	<0.05	25	<2	NA	NA	NA	3340
06/01/2018	1	6.0	6.1	22	16	4	<0.05	<0.02	<0.05	28	<2	NA	NA	NA	2600
07/23/2018	<1	5.7	6.0	20	18	0	<0.05	<0.02	<0.05	24	<2	NA	NA	NA	3020
08/08/2018	<1	6.0	6.3	24	20	-6	<0.05	<0.02	<0.05	26	5	NA	NA	NA	3370
09/13/2018	1	6.1	6.6	22	30	-19	0.12	<0.02	<0.05	26	3	NA	NA	NA	2000
10/04/2018	1	6.3	6.5	19	47	-29	0.14	0.03	0.08	31	6	NA	NA	NA	2510
11/07/2018	1	7.0	7.0	13	78	-65	<0.05	<0.02	<0.05	35	3	NA	NA	NA	2280
12/11/2018	1	8.3	6.4	8	38	-18	<0.05	<0.02	<0.05	33	<2	NA	NA	NA	3580
01/22/2019	2	6.8	6.3	10	34	-15	<0.05	<0.02	--	35	<2	NA	NA	NA	6100
04/30/2019	<1	6.8	6.4	16	33	-14	<0.05	<0.02	<0.05	30	12	NA	NA	NA	2390
Not applicable;	<1	7.2	6.2	19	26	-9	<0.05	<0.02	<0.05	26	<2	NA	NA	NA	2290
12/26/2019	<1	6.5	6.3	5	18	-8	0.56	0.34	0.12	21	10	NA	NA	NA	2310
03/26/2020	Springhouse flooded														
06/04/2020	Springhouse flooded														
09/16/2020	Springhouse flooded														
11/13/2020	Springhouse flooded														
02/02/2021	Springhouse flooded														
06/10/2021	<1	6.8	7.0	20	23.4	-1.44	7.60	5.49	0.455	27.8	67	1910	NA	NA	3600

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator: LCT Energy, LP
Operation Name: Rustic Ridge #1
Permit No: 65131301
Township: Donegal/Saltlick
County: Westmoreland/Fayette

Monitoring Point I.D.: S460
Latitude: 40° 06' 35.03" N and
Longitude: 79° 22' 46.92" W
Grid Coordinate: 17G
Surface Elevation: 1826

Description of Sample Point: Firestone, Spring
Existing use(s) Domestic
Planned future use(s) Same
If sampling point is a well, when was it drilled: NA

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/12/2013	4	5.5	5.8	21	14	6	0.22	0.03	0.30	15	<5	NA	NA	NA	130
08/05/2013	2	5.8	6.2	22	26	-7	<0.05	<0.02	0.07	14	<5	NA	NA	NA	127
04/09/2018	5	4.5	6.0	7	4	20	0.11	0.02	0.17	12	<2	NA	NA	NA	88
05/09/2018	1	5.1	6.0	16	9	13	<0.05	<0.02	0.09	13	<2	NA	NA	NA	98
06/08/2018	1	4.6	5.8	19	10	12	0.17	0.04	0.13	12	<2	NA	NA	NA	94
07/05/2018	1	5.8	6.0	23	12	4	<0.05	<0.02	0.09	13	5	NA	NA	NA	99
08/08/2018	No flow														
09/12/2018	4	4.5	6.0	22	6	0	0.68	0.02	0.71	10	4	NA	NA	NA	82
10/04/2018	3	5.4	5.8	22	8	5	0.20	<0.02	0.21	12	<2	NA	NA	NA	84
11/02/2018	4	5.4	5.8	15	6	5	0.11	0.02	0.19	12	4	NA	NA	NA	81
12/11/2018	2	8.5	6.0	9	8	2	<0.05	0.02	0.10	12	<2	NA	NA	NA	91
01/18/2019	<1	5.9	5.9	11	10	7	<0.05	0.02	--	13	<2	NA	NA	NA	88
04/04/2019	1	5.7	6.2	12	13	1	<0.05	<0.02	0.07	13	4	NA	NA	NA	107
09/13/2019	Dry														
Not applicable;	5	6.0	6.1	9	6	3	0.15	0.02	0.23	10	<2	NA	NA	NA	83
03/05/2020	4	6.0	5.9	12	5	7	0.12	0.02	0.17	11	3	NA	NA	NA	86
05/21/2020	2	6.2	6.0	14	8	1	<0.05	<0.02	0.09	12	7	NA	NA	NA	87
09/16/2020	Dry														
11/13/2020	<1	6.6	6.2	13	24	-4	1.15	<0.02	1.01	11	3	NA	NA	NA	128
02/02/2021	<1	6.2	6.4	12	10	0	<0.05	<0.02	0.08	12	3	NA	NA	NA	96
06/10/2021	No flow														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W463</u>	Description of Sample Point:	<u>J. Hastings, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 34.33"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 28.30"</u>	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1675'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/18/2013	1661	6.8	6.9	25	125	-99	<0.05	0.07	<0.05	16	<5	NA	NA	NA	3090
09/10/2013	No access	7.2	7.1	23	141	-117	0.10	0.06	<0.05	17	<5	NA	NA	NA	3840
10/04/2013	1660	6.9	6.8	22	140	-112	2.04	1.07	<0.05	17	<5	NA	NA	NA	3610

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W477</u>	Description of Sample Point:	<u>T. Firestone, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 33.48"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 45.48"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1821</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/05/2013	1817.0	5.8	6.2	22	23	-4	0.55	0.03	0.31	16	8	NA	NA	NA	147
09/03/2013	1817.1	5.8	6.0	22	26	-2	0.45	0.02	0.27	16	<5	NA	NA	NA	184

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W478</u>	Description of Sample Point:	<u>T. Firestone, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 32.97"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 45.14"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1818'</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/05/2013	1813	5.8	6.1	22	25	-6	0.28	0.03	0.22	24	6	NA	NA	NA	177
09/03/2013	1806	6.1	6.2	20	27	-4	1.27	<0.02	1.38	8	5	NA	NA	NA	94

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W479</u>	Description of Sample Point:	<u>T. Firestone, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 32.49"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 44.49"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1814"</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/05/2013	No access	*													
	*Unable to sample; no electric to pump														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W480</u>	Description of Sample Point:	<u>J. Brady Trustee, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 33.66"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 47.64"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1820</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/05/2013	1800.5	5.4	5.8	20	12	3	0.50	0.17	0.21	20	7	NA	NA	NA	338
09/03/2013	1796.7	5.9	5.7	20	17	4	0.06	0.11	0.11	22	<5	NA	NA	NA	324

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W481</u>	Description of Sample Point:	<u>T. Firestone, Well</u>
Operation Name:	<u>Rustic Ridge #1</u>	Latitude:	<u>40° 06' 32.12"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 45.84"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1812</u>	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/05/2013	No access	*													
	*Unable to sample; not hooked up														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>SW509</u>	Description of Sample Point:	<u>Trib #43592 to Fourmile Run</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 08' 01.63"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 44.00"</u> W	Existing use(s)	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>25Q</u>	Planned future use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1761</u> feet	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/22/2021	150	8.37	6.5	12.3	7	7	0.10	<0.02	<0.05	8	18	NA	NA	NA	66
04/05/2021	224	8.47	7.26	15.2	<20.0	2.610	<0.925	<0.0620	<0.378	<10	4.8	NA	NA	NA	58.5
05/06/2021	224	8.32	7.52	12.2	<20.0	2.560	1.00	0.0759	0.402	7.07	19.2	NA	NA	NA	59.5
06/01/2021	31	7.28	7.28	19.6	<20.0	-16.00	1.24	0.154	0.348	<5	31.3	NA	NA	NA	65.9
07/08/2021	75	7.42	7.45	18.4	30	-13	1.15	0.32	0.30	<5	22	NA	NA	NA	84
08/02/2021	5	7.41	7.00	20.7	19	4	1.15	0.05	0.70	<5	21	NA	NA	NA	41

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>SW510</u>	Description of Sample Point:	<u>UNT #31 to Indian Creek</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 58.19"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 47.06"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19Q</u>	Existing use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1700</u>	feet	
				Planned future use(s)	
				If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/22/2021	150	8.07	6.6	12.1	18	-3	0.09	<0.02	<0.05	11	10	NA	NA	NA	116
04/05/2021	37	8.51	7.12	15.4	<20.0	-0.7000	<0.925	<0.0620	<0.378	13.2	17.6	NA	NA	NA	111
05/06/2021	336	8.11	7.60	13.5	<20.0	4.200	0.143	0.0132	0.143	10.6	12.8	NA	NA	NA	83
06/01/2021	75	7.65	7.50	18.2	46.0	-42.00	0.609	0.0381	0.257	9.76	18	NA	NA	NA	126
07/08/2021	75	7.58	8.11	19.6	124	-106	0.66	0.05	0.4	11	22	NA	NA	NA	356
08/02/2021	Damp-No flow														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>SW511</u>	Description of Sample Point:	<u>Trib #43610 to Fourmile Run</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 13.85"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 50.18"</u> W	Existing use(s)	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20L</u>	Planned future use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1517</u> feet	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/22/2021	598	8.42	6.7	13.2	21	-5	0.11	0.02	0.06	10	10	NA	NA	NA	145
04/05/2021	897	8.61	7.36	15.7	25.0	-3.990	<0.925	<0.0620	<0.378	11.5	4.40	NA	NA	NA	134
05/06/2021	897	7.99	7.51	12.8	26.0	-6.610	0.0571	0.382	0.206	8.60	9.20	NA	NA	NA	122
06/01/2021	448	7.36	7.59	20.2	38.0	-36.00	0.310	0.0570	<0.0756	9.00	2.67	NA	NA	NA	159
07/08/2021	336	7.44	7.70	21.3	58	-40	0.54	0.09	0.2	6	14	NA	NA	NA	187
08/02/2021	150	7.50	7.57	19.1	71	-47	0.33	0.10	<0.1	<5	<2	NA	NA	NA	199

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>SW512</u>	Description of Sample Point:	<u>Fourmile Run (43542)</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 20.92"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 13.91"</u> W	Existing use(s)	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21J</u>	Planned future use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1480</u> feet	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/22/2021	3366	8.51	6.8	12.5	29	-12	0.10	0.03	0.06	15	6	NA	NA	NA	448
04/05/2021	3366	8.58	7.58	16.2	36.2	-10.50	<0.925	<0.0620	<0.378	17.9	3.60	NA	NA	NA	420
05/06/2021	4488	7.88	7.57	12.0	36.7	-14.63	0.0460	0.317	0.179	12.6	7.60	NA	NA	NA	291
06/01/2021	>1500	7.53	7.63	19.7	58.0	-58.00	0.214	0.0465	<0.0756	18.3	<2.50	NA	NA	NA	506
07/08/2021	1309	7.62	7.90	20.8	87	-74	0.22	0.05	<0.1	24	10	NA	NA	NA	900
08/02/2021	75	7.31	7.98	19.9	100	-75	0.09	0.07	<0.1	25	<2	NA	NA	NA	944

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator:	LCT Energy, LP	Monitoring Point I.D.:	SW513	Description of Sample Point:	DS, UNT #8 to Fourmile Run
Operation Name:	Rustic Ridge #1 Expansion	Latitude:	40° 07' 23.21" N and		(43605)
Permit No:	65131301	Longitude:	79° 22' 17.60" W	Existing use(s)	
Township:	Donegal/Saltlick	Grid Coordinate:	21J	Planned future use(s)	
County:	Westmoreland/Fayette	Surface Elevation:	1485 feet	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/22/2021	1496	8.09	6.6	12.3	15	0	0.09	0.02	0.05	11	7	NA	NA	NA	520
04/05/2021	2244	8.66	7.16	16.9	21.4	3.600	<0.925	<0.0620	<0.756	13.1	<1.60	NA	NA	NA	531
05/06/2021	1496	8.29	7.55	12.8	24.3	-5.760	0.247	0.0445	0.0969	10.1	4.40	NA	NA	NA	424
06/01/2021	898	7.62	7.64	19.6	30.0	-32.00	<0.185	0.0291	<0.0756	10.8	<2.50	NA	NA	NA	577
07/08/2021	598	7.55	7.54	21.5	42	-26	0.25	0.06	<0.1	11	4	NA	NA	NA	705
08/02/2021	50	7.82	7.70	20.4	52	-33	0.12	0.04	<0.1	10	<2	NA	NA	NA	844

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☐ BACKGROUND or ☒ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>SW514</u>	Description of Sample Point:	<u>US, Trib #8 to Fourmile Run</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 12.81"</u> N and		<u>(43605)</u>
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 30.36"</u> W	Existing use(s)	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20D</u>	Planned future use(s)	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1630</u> feet	If sampling point is a well, when was it drilled:	

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/22/2021	623	8.04	6.5	13.4	16	-3	<0.05	0.03	<0.05	16	5	NA	NA	NA	1255
04/05/2021	1122	8.32	7.24	15.9	23.3	-6.63	<0.925	<0.0620	<0.378	16.5	<1.60	NA	NA	NA	840
05/06/2021	748	7.63	7.48	13.5	27.9	-6.07	<0.185	0.0242	0.123	14	<1.60	NA	NA	NA	800
06/01/2021	623	7.25	7.51	18.8	46	-46	0.585	1.11	<0.0756	12.9	6.67	NA	NA	NA	1130
07/08/2021	499	7.38	7.90	20.6	59	-45	0.44	0.21	<0.1	11	<2	NA	NA	NA	938
08/02/2021	5	7.18	7.17	21.6	78	-53	0.16	0.16	<0.1	39	4	NA	NA	NA	2250

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W516</u>	Description of Sample Point:	<u>J. Shaffer, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 49.00"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 53.65"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1839</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	Buried / not hooked up														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W517</u>	Description of Sample Point:	<u>T. Porter, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 35.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 38.40"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1924</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	1874.3	6.16	8.13	16.4	108	-104	6.17	0.612	<0.0756	10.8	15.3	NA	NA	NA	652
08/24/2021	1872.8	7.23	7.62	22.0	107	-93	4.31	0.64	<0.1	6	7	NA	NA	NA	606

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W518</u>	Description of Sample Point:	<u>T. Porter, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 37.45"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 38.76"</u> W	Existing use(s)	<u>Commercial</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1919</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	1893.5	6.73	7.40	17.7	30	-26	12.8	1.54	1.17	21.3	188	NA	NA	NA	568
08/24/2021	1892.6	6.49	6.46	19.8	33	-8	9.60	1.48	<0.1	25	13	NA	NA	NA	512

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W519</u>	Description of Sample Point:	<u>T. Porter, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 23.38"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 43.80"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1849</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	1809.6	6.69	8.25	14.7	112	-106	15	0.770	<0.0756	7.68	54	NA	NA	NA	477
08/24/2021	1805.9	7.61	7.80	22.0	109	-91	3.42	0.23	<0.1	<5	12	NA	NA	NA	422

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W520</u>	Description of Sample Point:	<u>R. Kimiko, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 43.35"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 24.68"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1871</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	No Access														
08/19/2021	No Access														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W521</u>	Description of Sample Point:	<u>R. Kimiko, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 43.25"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 24.72"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1874</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	1854.4	6.56	8.08	14.7	82	-82	<0.185	<0.0124	<0.0756	12.2	5.33	NA	NA	NA	238
08/19/2021	1712.4	7.15	7.44	18.5	126	-105	<0.05	0.02	<0.1	16	4	NA	NA	NA	303
08/24/2021	1705.6	SWL Only													

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W523</u>	Description of Sample Point:	<u>Shearer Farms Holdings, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 47.32"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 27.72"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1755</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	1716.0	6.68	8.33	15.3	134	-50	<0.185	<0.0124	<0.0756	18.9	<2.67	NA	NA	NA	323
08/18/2021	1706.8	7.08	8.04	19.4	154	-140	<0.05	<0.01	<0.1	15	<2	NA	NA	NA	321

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S524</u>	Description of Sample Point:	<u>Shearer Honey House, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 53.49"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 28.14"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1687</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/04/2021	<1	6.98	6.97	14.5	30.0	-26.0	<0.185	<0.0124	<0.0756	11.4	5.33	NA	NA	NA	129
05/31/2022	<1	7.24	7.40	19.2	80.0	-66.0	<0.05	<0.01	<0.1	17.0	<2	NA	NA	NA	200
10/25/2022	No sample														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S525</u>	Description of Sample Point:	<u>H. Battellino, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 46.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 57.17"</u> W	Existing use(s)	<u>Domestic, Industrial</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1822</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/06/2021	*	6.89	7.47	11.5	26.1	-4.36	<0.185	<0.0124	0.102	12.6	<1.60	NA	NA	NA	310
09/13/2021	*	6.57	6.21	18.7	23	-2	<0.05	<0.01	<0.1	14	<2	NA	NA	NA	336

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W526</u>	Description of Sample Point:	<u>R. Marker, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 45.08"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 00.89"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24K</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1476</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/06/2021	No Access	7.44	7.63	12.6	152	-79.35	6.70	0.215	<0.0756	6.19	9.20	NA	NA	NA	359

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W527</u>	Description of Sample Point:	<u>H. Hoffer Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 46.72"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 06.00"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1837</u> feet	If sampling point is a well, when was it drilled:	<u>2017</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/06/2021	No Access	7.63	8.00	13.5	94	-92	<0.185	0.365	<0.0756	9.98	<1.60	NA	NA	NA	203
08/24/2021	No Access	7.76	7.96	21.8	98	-79	0.49	0.38	<0.1	14	<2	NA	NA	NA	204

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W528</u>	Description of Sample Point:	<u>K. Steele, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 11.06"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 48.24"</u> W	Existing use(s)	<u>Domestic, Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20L</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1528</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/06/2021	No Access	7.54	8.21	12.3	176	-174	<0.185	<0.0124	<0.0756	<5	<1.60	NA	NA	NA	325
08/16/2021	No Access	7.14	8.05	20.9	176	-166	0.19	0.01	<0.1	<5	<2	NA	NA	NA	340

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W530</u>	Description of Sample Point:	<u>R. Rosswog, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 36.74"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 29.43"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1721</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
8/13/2021*	1584.2														
12/18/2023	Hit Slack at 84.0'; Well Not Connected														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W531</u>	Description of Sample Point:	<u>D. Temple, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 53.50"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 05.64"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1838</u> feet	If sampling point is a well, when was it drilled:	<u>1970 's</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/07/2021	ND	7.35	7.57	11.4	78.3	-6.780	<0.185	<0.0124	<0.0756	<5.00	<1.60	NA	NA	NA	152
08/17/2021	1818.9	7.06	7.22	19.7	67	-47	<0.05	<0.01	<0.1	<5	<2	NA	NA	NA	155

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W532</u>	Description of Sample Point:	<u>T. Pisula, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 43.97"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 39.12"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1943</u> feet	If sampling point is a well, when was it drilled:	<u>2010</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/15/2021	1869.2	7.38	6.78	10.2	24.7	-4.28	<0.185	<0.0124	<0.0756	11.9	<4	NA	NA	NA	131
08/23/2021	1846.9	6.82	6.50	21.5	24	-6	0.31	0.08	<0.1	10	<2	NA	NA	NA	150

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S534</u>	Description of Sample Point:	<u>V. Snyder, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 12.50"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 37.80"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1554</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	6	6.62	6.90	20.8	32	-30	<0.185	<0.0124	<0.0756	8.92	4.8	NA	NA	NA	101
08/18/2021	49	7.64	7.32	21.8	45	-32	0.25	<0.01	0.3	7	<2	NA	NA	NA	175

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W535</u>	Description of Sample Point:	<u>R. Gross, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 06.10"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 28.68"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1687</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	1639.9	7.14	7.58	24.9	130	-124	1.20	0.243	<0.0756	9.98	2.8	NA	NA	NA	308
08/19/2021	1639.6	7.28	7.60	18.9	133	-117	0.95	0.23	<0.1	12	<2	NA	NA	NA	304

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W536</u>	Description of Sample Point:	<u>B. Dillow, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 07.43"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 28.92"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1628</u> feet	If sampling point is a well, when was it drilled:	<u>1981</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	1549.9	7.65	7.79	18.7	194	-178	0.759	0.0245	<0.0756	7.05	24	NA	NA	NA	613
08/18/2021	1568.6	7.71	8.23	20.8	191	-178	0.20	0.03	<0.1	<5	9	NA	NA	NA	609

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W538</u>	Description of Sample Point:	<u>F. Kalp, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 56.48"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 54.03"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19B</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1845</u> feet	If sampling point is a well, when was it drilled:	<u>1964-1965</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	No access for sample														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W539</u>	Description of Sample Point:	<u>L. Nudo, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 32.61"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 20.95"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22E</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1849</u> feet	If sampling point is a well, when was it drilled:	<u>1994-1995</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	*	7.56	8.06	19.5	132	-132	<0.185	<0.0124	<0.0756	1.36	<1.6	NA	NA	NA	259
09/01/2021	*	7.85	8.19	19.7	142	-126	0.06	<0.01	<0.1	<5	4	NA	NA	NA	266

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W540</u>	Description of Sample Point:	<u>L. Nudo, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 33.65"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 21.64"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23E</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1852</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	*	7.11	7.70	18.7	108	-104	9.76	0.103	<0.0756	6.27	29.6	NA	NA	NA	224
09/01/2021	*	7.47	7.77	19.8	116	-103	5.74	0.12	0.1	<5	8	NA	NA	NA	230

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W541</u>	Description of Sample Point:	<u>L. Nudo, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 34.70"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 24.71"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23D</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1864</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	1837.9	7.32	7.67	18.6	78	-70	0.417	<0.0124	0.0856	2.07	9.6	NA	NA	NA	160
09/01/2021	1829.8	8.01	7.91	20.0	83	-71	0.41	0.06	<0.1	<5	10	NA	NA	NA	173
07/06/2022	1834.5	7.26	8.00	21.4	83	-70.000	0.19	0.01	<0.1	<5	16	NA	NA	NA	170
11/22/2022	1834.5	6.61	8.12	13.7	80	-71.000	0.13	0.01	<0.1	<5	38.00	NA	NA	NA	174.0

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S542</u>	Description of Sample Point:	<u>L. Nudo, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 29.98"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 21.28"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22E</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1819</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/19/2021	Damp, no flow														
09/01/2021	Dry														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W543</u>	Description of Sample Point:	<u>G. & M. Pavlik, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 39.79"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 26.52"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1817</u> feet	If sampling point is a well, when was it drilled:	<u>1987</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	*	7.54	7.81	24.9	102	-98	<0.185	<0.0124	<0.0756	16	2	NA	NA	NA	534
08/19/2021	*	7.70	8.04	20.6	94	-84	<0.05	<0.01	<0.1	18	<2	NA	NA	NA	474
*Owner Refused Static Reading															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W544</u>	Description of Sample Point:	<u>M. Gerhart, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 03.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 04.56"</u> W	Existing use(s)	<u>Domestic/Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1818</u> feet	If sampling point is a well, when was it drilled:	<u>2011</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	1725.2	7.10	7.39	23.8	56	-52	<0.185	<0.0124	<0.0756	6.95	<1.60	206	NA	NA	465
01/05/2022	1725.2	7.19	7.44	11.4	52	-41	<0.05	<0.01	<0.1	8	<2	NA	NA	NA	512
10/18/2022	1709.3	7.61	7.47	14.9	64	-48.000	<0.05	<0.01	<0.1	8.0	<2	NA	NA	NA	497.0

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S545</u>	Description of Sample Point:	<u>M. Gerhart, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 06.02"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 06.72"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1786</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	3	6.17	6.74	24.3	<20.0	-12	0.54	0.07	0.4	6.98	13	74	NA	NA	142
01/05/2022	8.8	6.36	6.47	10.9	13	-2	0.16	0.05	0.2	9	5	NA	NA	NA	156
10/18/2022	No Flow	7.65	7.03	10.3	28	-15	0.06	0.02	<0.1	8.0	4	NA	NA	NA	138

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W547</u>	Description of Sample Point:	<u>R. Horwat, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 25.14"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 39.12"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1901</u> feet	If sampling point is a well, when was it drilled:	<u>2010</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	1833.7	7.19	7.70	24.7	102	-98.00	0.38	0.09	<0.0756	6.60	2.80	310	NA	NA	533

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S548</u>	Description of Sample Point:	<u>S. Kimmell, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 20.86"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 25.44"</u> W	Existing use(s)	<u>Domestic/Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1695</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	<1	6.72	7.45	22.4	106	-104	<0.185	<0.0124	<0.0756	13.4	<1.60	NA	NA	NA	263
08/23/2021	0	7.51	7.37	22.2	108	-95	<0.05	<0.01	<0.1	19	<2	NA	NA	NA	254

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W549</u>	Description of Sample Point:	<u>Lang Jacqueline Barbara Trust,</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 23.19"</u> N and		<u>Well</u>
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 25.78"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21N</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1574</u> feet	If sampling point is a well, when was it drilled:	<u>1976</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No Access	7.44	7.91	23.0	142	-140	0.368	0.0667	<0.0756	7.82	<1.60	NA	NA	NA	297
08/27/2021	No Access	7.44	8.01	16.4	142	-128	0.20	0.08	<0.1	10	<2	NA	NA	NA	284

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P550</u>	Description of Sample Point:	<u>M. Sibal, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 20.51"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 24.85"</u> W	Existing use(s)	<u>Recreational</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21N</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1570</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No seen flow	7.33	7.52	24.5	34	-30	0.541	0.144	<0.0756	8.91	7.60	NA	NA	NA	150
08/27/2021	No seen flow	7.69	8.05	19.6	59	-45	0.18	0.09	<0.1	8	<2	NA	NA	NA	221

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P551</u>	Description of Sample Point:	<u>M. Sibal, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 21.93"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 30.27"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1551</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No seen flow	6.74	7.33	26.7	22	-16	0.372	0.126	<0.0756	7.86	8.80	NA	NA	NA	77.1
08/27/2021	No seen flow	7.21	7.37	21.8	33	-18	0.37	0.10	<0.1	7	2	NA	NA	NA	99

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S552</u>	Description of Sample Point:	<u>D. Brown, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 08' 05.90"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 53.16"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>26P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1730</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	7	6.17	6.64	20.8	26	-10	<0.185	<0.0124	<0.0756	6.48	1.60	NA	NA	NA	83.6
08/27/2021	No Flow	7.12	6.82	28.0	34	-19	<0.05	<0.01	<0.1	9	<2	NA	NA	NA	97

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P553</u>	Description of Sample Point:	<u>D. Brown, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 08' 07.81"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 53.74"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>26P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1709</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No seen flow	6.78	7.27	21.2	32	-26	0.33	0.03	0.214	6.86	12	NA	NA	NA	93.6
08/27/2021	No seen flow	7.66	8.19	27.9	45	-28	0.10	0.04	<0.1	8	3	NA	NA	NA	109

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S554</u>	Description of Sample Point:	<u>S. Brown, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 57.63"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 42.89"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>25Q</u>	Existing use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1783</u>	feet	Planned future use(s) <u>Same</u>
					If sampling point is a well, when was it drilled: <u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No Access	5.79	6.28	22.6	28	-14	<0.185	<0.0124	<0.0756	3.69	1.60	NA	NA	NA	79.6
08/27/2021	No Access	5.81	6.10	27.2	22	-2	<0.05	0.02	<0.1	5	<2	NA	NA	NA	63

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W555</u>	Description of Sample Point:	<u>S. Brown, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 57.77"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 42.99"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>25Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1783</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No Access	6.87	7.69	19.8	116	-114	3.18	0.52	<0.0756	2.32	3.2	NA	NA	NA	229
08/27/2021	No Access	8.01	7.64	26.4	111	-96	3.13	0.56	<0.1	<5	5	NA	NA	NA	252

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P556</u>	Description of Sample Point:	<u>S. Brown, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 57.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 43.96"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>25Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1790</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/20/2021	No Access	7.19	6.95	21.9	<20	-6	<0.185	<0.0124	<0.0756	5.03	1.6	NA	NA	NA	37.8
08/27/2021	No Access	8.11	7.09	29.0	13	3	0.40	0.11	<0.1	<5	9	NA	NA	NA	39

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W557</u>	Description of Sample Point:	<u>A. Quadro, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 34.21"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 21.12"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22S</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1794</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	1785.4	6.10	6.89	20.2	<20	7.43	0.197	<0.0124	<0.0756	12.7	3.60	NA	NA	NA	80
08/23/2021	1780.9	6.61	6.33	19.6	16	-1	<0.05	<0.01	<0.1	19	<2	NA	NA	NA	90

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W558</u>	Description of Sample Point:	<u>E. Mumau, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 09.96"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 26.94"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20D</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1670</u> feet	If sampling point is a well, when was it drilled:	<u>1970</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	*	6.67	7.24	19.6	64.8	-25.03	5.10	1.47	<0.0756	2.49	16.4	NA	NA	NA	1680
09/01/2021	*	8.04	7.21	18.6	64	-50	3.64	1.32	<0.1	<5	10	NA	NA	NA	1630

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W560</u>	Description of Sample Point:	<u>M. Zuckett, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 36.55"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 26.52"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>23R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1774</u> feet	If sampling point is a well, when was it drilled:	<u>~1984</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	1720.1	7.44	7.84	19.2	110	-50.02	1.39	0.232	<0.0756	13.7	2	NA	NA	NA	404
09/03/2021	1732.7	7.05	7.94	7.2	104	-90	0.97	0.04	<0.1	13	4	NA	NA	NA	397

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S561</u>	Description of Sample Point:	<u>N. Thom, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 24.89"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 45.96"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1845</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	No Flow														
08/27/2021	No Flow														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S562</u>	Description of Sample Point:	<u>N. Thom, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 24.64"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 44.88"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1845</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	<1	6.23	6.91	18.2	<20	6.15	0.295	0.0273	0.0768	10.7	4.40	NA	NA	NA	354
08/27/2021	<1	6.63	6.87	21.5	17	2	0.22	0.02	<0.1	15	<2	NA	NA	NA	417

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W563</u>	Description of Sample Point:	<u>N. Thom, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 25.57"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 47.04"</u>	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1858</u>	feet	If sampling point is a well, when was it drilled: <u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	1834.8	7.07	7.35	21.0	88.5	-9.05	2.83	1.01	<0.0756	<5	7.20	NA	NA	NA	396
08/27/2021	1832.6	7.17	7.85	19.7	82	-64	2.48	0.97	<0.1	<5	4	NA	NA	NA	363

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P564</u>	Description of Sample Point:	<u>N. Thom, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 24.13"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 45.23"</u>	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1841</u>	feet	If sampling point is a well, when was it drilled: <u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/21/2021	<1	7.13	7.13	19.8	26.1	-4.74	0.332	0.112	<0.0756	8.78	2.40	NA	NA	NA	340
08/27/2021	<1	7.68	7.70	22.0	44	-27	0.94	0.11	0.1	<5	14	NA	NA	NA	332

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W565</u>	Description of Sample Point:	<u>D. Brown, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 11.82"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 25.32"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1548</u> feet	If sampling point is a well, when was it drilled:	<u>1993</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	1505.3	8.64	8.48	19.5	228	-224	<0.185	<0.0124	<0.0756	<1	<1.60	NA	NA	NA	725
09/28/2021	1502.9	8.44	8.72	18.4	215	-195	<0.05	<0.01	<0.1	<5	<2	NA	NA	NA	747

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W566</u>	Description of Sample Point:	<u>K. Summersgill, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 08' 07.31"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 47.04"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>26Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1743</u> feet	If sampling point is a well, when was it drilled:	<u>Over 100 years ago</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	No Access	6.03	6.54	18.6	28	-26	<0.185	<0.0124	<0.0756	5.28	<1.60	NA	NA	NA	74.6
08/24/2021	No Access	6.88	7.00	23.6	39	-19	<0.05	<0.01	<0.1	5	<2	NA	NA	NA	91

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S567</u>	Description of Sample Point:	<u>C. Colombo, Spring</u>	
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 26.10"</u>	N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 37.79"</u>	W		
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22C</u>	Existing use(s)	<u>Domestic</u>	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1706</u>	feet	Planned future use(s)	<u>Same</u>
					If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	No Access	5.70	6.54	18.3	<20	-10	1.99	<0.0124	<0.0756	11.1	8.40	NA	NA	NA	95.2
09/03/2021	2.0	6.15	6.46	16.8	13	4	<0.05	<0.01	<0.1	14	<2	NA	NA	NA	99

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W568</u>	Description of Sample Point:	<u>A. Stouffer, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 13.37"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 27.50"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20D</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1641</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	Cap stuck	7.35	7.65	12.9	90	-84	2.85	0.292	<0.0756	4	9.20	NA	NA	NA	1140
08/24/2021	1612.4	7.75	7.94	24.3	84	-63	1.90	0.25	<0.1	<5	5	NA	NA	NA	1320

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S569</u>	Description of Sample Point:	<u>A. Stouffer, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 14.41"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 27.26"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21D</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1633</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	5	7.13	7.30	17.8	<20	-16	0.345	0.0332	0.260	5.86	10.4	NA	NA	NA	88
08/24/2021	<1	7.56	7.36	22.8	31	-10	0.08	0.01	<0.1	8	5	NA	NA	NA	100

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W570</u>	Description of Sample Point:	<u>D. Proctor, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 33.89"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 38.40"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1925</u> feet	If sampling point is a well, when was it drilled:	<u>2000 's</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	Cap stuck	7.34	7.91	18.3	112	-108	0.371	0.0367	<0.0756	10.4	<1.60	NA	NA	NA	648
08/19/2021	1844.4	7.36	7.82	18.4	110	-97	0.15	0.01	<0.1	12	<2	NA	NA	NA	627

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S572</u>	Description of Sample Point:	<u>D. Wilttrout, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 37.49"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 11.44"</u> W	Existing use(s)	<u>Domestic/Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1720</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	<1	5.97	6.77	18.9	22	-18	<0.185	<0.0124	<0.0756	8.64	<1.60	NA	NA	NA	73.7
08/23/2021	<1	6.68	6.53	21.9	34	-21	0.30	0.04	0.1	12	5	NA	NA	NA	104

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S573</u>	Description of Sample Point:	<u>D. Wilttrout, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 39.79"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 19.35"</u> W	Existing use(s)	<u>Domestic/Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17AA</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1746</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	No overflow	6.42	6.97	18.1	138	-120	0.694	0.237	0.936	<5	68.4	NA	NA	NA	330
08/23/2021	<1	6.59	6.51	20.8	49	-36	0.53	0.14	<0.1	13	<2	NA	NA	NA	123

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W574</u>	Description of Sample Point:	<u>T. Moore, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 17.98"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 52.78"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1784</u> feet	If sampling point is a well, when was it drilled:	<u>2001</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	Well buried	6.86	8.33	19.2	76	-74	<0.185	0.0132	<0.0756	5.41	<1.60	NA	NA	NA	219
08/27/2021	Well buried	6.94	7.40	28.1	79	-63	0.29	0.12	<0.1	<5	<2	NA	NA	NA	226

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S575</u>	Description of Sample Point:	<u>T. Moore, Spring</u>	
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 17.36"</u>	N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 50.93"</u>	W		
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21P</u>	Existing use(s)	<u>Domestic</u>	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1806</u>	feet	Planned future use(s)	<u>Same</u>
					If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	<1	6.67	7.14	19.4	<20	-6	<0.185	<0.0124	<0.0756	6.59	<1.60	NA	NA	NA	46
08/27/2021	No Overflow	6.72	6.87	25.1	22	-4	<0.05	<0.01	<0.1	8	<2	NA	NA	NA	68

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P576</u>	Description of Sample Point:	<u>T. Moore, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 18.74"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 50.98"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1795</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	<1	6.82	6.96	19.8	<20	-6	0.542	0.0457	<0.0756	5.54	5.60	NA	NA	NA	43.1
08/27/2021	No Flow	7.83	7.04	27.1	20	8	2.38	0.13	<0.1	<5	10	NA	NA	NA	34

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W577</u>	Description of Sample Point:	<u>B. Hall, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 57.00"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 09.22"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1910</u> feet	If sampling point is a well, when was it drilled:	<u>2015</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/24/2021	1845.2	7.12	7.71	20.9	98	-94	<0.185	<0.0124	<0.0756	5.81	2.80	120	NA	NA	210
08/20/2021	1843.6	6.54	7.73	21.5	98	-84	0.35	0.03	<0.1	6	4	NA	NA	NA	221
01/26/2022	1844.9	7.82	7.89	13.7	94	-84	0.91	0.05	<0.1	6	6	NA	NA	NA	210

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W578</u>	Description of Sample Point:	<u>J. Brown, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 17.65"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 08.04"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21J</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1493</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/26/2021	1488.1	6.67	7.22	21.3	86	-86	3.58	0.335	0.0959	7.96	11.6	NA	NA	NA	237
08/31/2021	1487.8	6.76	7.00	18.7	96	-81	0.09	0.29	<0.1	12	<2	NA	NA	NA	234

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W579</u>	Description of Sample Point:	<u>M. Nista, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 34.21"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 05.68"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22J</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1479</u> feet	If sampling point is a well, when was it drilled:	<u>2000</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/26/2021	Cap rusted	7.67	7.86	20.6	148	-142	<0.185	<0.0124	<0.0756	<5	8.40	NA	NA	NA	299
08/27/2021	1475.6	7.59	8.12	19.2	147	-132	0.25	0.01	<0.1	<5	<2	NA	NA	NA	285

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W581</u>	Description of Sample Point:	<u>S. Cesario, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 07.76"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 11.81"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1834</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/27/2021	No Access	7.17	7.49	17.6	112	-36.66	4.94	0.754	<0.0756	<5	5.33	NA	NA	NA	248
08/16/2021	No Access	7.11	7.29	23.6	105	-93	1.46	0.72	<0.1	<5	5	NA	NA	NA	240

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W582</u>	Description of Sample Point:	<u>S. Cesario, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 06.76"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 12.69"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1829</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/27/2021	Not hooked up. No sample. Obstruction @ 11.6'												NA	NA	
08/16/2021	Not hooked up. No sample.														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W583</u>	Description of Sample Point:	<u>C. Wettgen, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 00.69"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 01.22"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1910</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/27/2021	1810.2	7.53	7.72	18.4	109	-39.48	<0.185	<0.0124	<0.0756	5.14	<2.50	NA	NA	NA	255
08/20/2021	1803.4	7.38	7.91	20.4	112	-101	<0.05	<0.01	<0.1	<5	<2	NA	NA	NA	257

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W584</u>	Description of Sample Point:	<u>V. Jones, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 51.28"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 27.72"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1724</u> feet	If sampling point is a well, when was it drilled:	<u>1986</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/04/2021	1697.2	6.35	7.32	20.9	46	-42	<0.185	<0.0124	0.0816	14	4	NA	NA	NA	136
08/18/2021	1694.6	6.46	6.81	19.5	49	-32	0.10	<0.01	<0.1	9	<2	NA	NA	NA	138

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W585</u>	Description of Sample Point:	<u>R. Ciborowski, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 06.79"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 58.22"</u> W	Existing use(s)	<u>Secondary Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20B</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1893</u> feet	If sampling point is a well, when was it drilled:	<u>1985</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/04/2021	1870.6	5.85	7.04	19.6	48	-46	0.345	0.470	<0.0756	13.7	<2.50	NA	NA	NA	710
08/17/2021	1870.2	6.62	7.07	18.9	125	-109	0.14	0.18	<0.1	9	<2	NA	NA	NA	889

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W586</u>	Description of Sample Point:	<u>R. Heide, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 31.15"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 39.48"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1924</u> feet	If sampling point is a well, when was it drilled:	<u>1992-1993</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/04/2021	1870.3	6.33	3.66	21.6	<20	58	414	4.59	0.233	<5	320	NA	NA	NA	452
08/18/2021	1870.6	6.08	3.92	19.2	<10	37	43.4	4.12	<0.1	23	57	NA	NA	NA	418

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W587</u>	Description of Sample Point:	<u>M. Nedrow, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 09.26"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 22.08"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1563</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/06/2021	1508.2	7.87	7.96	20.8	192	-188	3.38	0.0275	0.234	6.78	42.7	NA	NA	NA	594
09/02/2021	1505.8	7.87	8.20	20.8	199	-182	0.21	0.02	<0.1	<5	10	NA	NA	NA	604

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S588</u>	Description of Sample Point:	<u>M. Nedrow, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 55.92"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 22.88"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1653</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/06/2021	<1	7.74	7.19	19.4	<20	-8	<0.185	<0.0124	0.148	9.36	13.3	NA	NA	NA	77.6
09/02/2021	<1	7.36	6.44	19.4	14	4	0.12	<0.01	0.1	8	7	NA	NA	NA	75

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S589</u>	Description of Sample Point:	<u>M. Nedrow, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 58.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 26.34"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1643</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/06/2021	<1	7.36	7.18	19.6	20	-16	1.2	0.0616	1.20	11.7	28	NA	NA	NA	81.8
09/02/2021	<1	7.31	7.14	23.1	26	-8	1.23	0.09	1.60	7	20	NA	NA	NA	71

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W590</u>	Description of Sample Point:	<u>G. O'Connor, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 25.07"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 50.36"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22L</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1620</u> feet	If sampling point is a well, when was it drilled:	<u>2000</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/08/2021	1598.6	7.70	7.77	20.5	118	-114	0.266	0.277	<0.0756	7.75	4.67	NA	NA	NA	249
09/28/2021	1607.4	7.52	7.84	19.2	123	-106	0.07	0.27	<0.1	6	<2	NA	NA	NA	257

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P591</u>	Description of Sample Point:	<u>J. Solomon, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 17.70"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 40.10"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21C</u>	Existing use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1638</u>	feet	Planned future use(s) <u>Same</u>
					If sampling point is a well, when was it drilled: <u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/09/2021	No flow	7.26	7.21	16.8	52	-50	1.61	0.622	0.395	10.3	16.7	NA	NA	NA	1020
08/24/2021	No flow	7.19	7.49	19.6	64	-47	1.00	0.35	<0.1	13	14	NA	NA	NA	704

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S592</u>	Description of Sample Point:	<u>J. Solomon, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 16.32"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 40.07"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21C</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1640</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/09/2021	25	7.17	7.09	16.4	38	-20	<0.185	0.0787	<0.0756	10.9	5	NA	NA	NA	1390
08/24/2021	31	7.57	7.62	20.6	56	-40	0.17	0.18	<0.1	17	8	NA	NA	NA	1470

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W593</u>	Description of Sample Point:	<u>B. Shaffer, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 08.29"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 30.72"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20H</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1636</u> feet	If sampling point is a well, when was it drilled:	<u>1978</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/10/2021	1567.6	7.13	7.69	21.9	128	-120	0.372	0.0148	<0.0756	6.73	<2.50	NA	NA	NA	835
08/19/2021	*	7.11	7.58	19.1	139	-119	0.35	0.04	<0.1	7	<2	NA	NA	NA	979
* Owner Refused Static Reading															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W594</u>	Description of Sample Point:	<u>V. Ungerleider, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 45.59"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 59.96"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24K</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1479</u> feet	If sampling point is a well, when was it drilled:	<u>2020</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/11/2021	1467.8	7.81	8.03	20.2	158	-56.67	<0.185	<0.0124	<0.0756	<5	<2.50	NA	NA	NA	590
08/31/2021	1473.1	8.14	8.23	23.3	152	-139	0.11	0.01	<0.1	<5	<2	NA	NA	NA	572

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W595</u>	Description of Sample Point:	<u>J. Poyner, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 09.77"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 22.92"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1665</u> feet	If sampling point is a well, when was it drilled:	<u>1960</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/15/2021	Well buried	7.09	7.79	15.9	128	-124	1.02	0.255	<0.0756	5.96	<2.50	NA	NA	NA	604
08/18/2021	Well buried	6.91	7.74	21.2	120	-108	0.47	0.30	<0.1	6	2	NA	NA	NA	699

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W596</u>	Description of Sample Point:	<u>R. Nedrow, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 13.80"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 21.36"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1528</u> feet	If sampling point is a well, when was it drilled:	<u>1966</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/17/2021	1499.1	7.63	7.94	20.3	164	-72.32	<0.185	0.105	<0.0756	6.93	<2.50	NA	NA	NA	477
08/17/2021	1501.6	7.52	8.21	19.8	153	-142	0.06	0.09	<0.1	7	<2	NA	NA	NA	451

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W597</u>	Description of Sample Point:	<u>K. Caldwell, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 45.84"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 35.88"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1932</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/18/2021	1857.2	5.74	6.47	16.6	<20	20.75	0.299	<0.0124	<0.0756	7.57	<2.50	NA	NA	NA	208
08/30/2021	1862.4	6.41	6.42	17.9	19	-1	0.07	<0.01	<0.1	12	5	NA	NA	NA	377

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W599</u>	Description of Sample Point:	<u>K. Olinger</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 27.06"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 53.52"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1927</u> feet	If sampling point is a well, when was it drilled:	<u>2020</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
06/21/2021	1848.6	New Well; Not Hooked Up Yet													
03/13/2024	1852.5	6.61	6.69	18.2	18	-7	19.50	0.59	0.10	<5	76	NA	NA	NA	71

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W605</u>	Description of Sample Point:	<u>R. Donitzen Jr, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 06.20"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 27.84"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1623</u> feet	If sampling point is a well, when was it drilled:	<u>2014</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/01/2021	No Access	6.85	7.31	19.6	129	-117	0.10	<0.01	<0.1	31	<2	NA	NA	NA	613
09/07/2021	1559.8	7.71	7.67	19.7	128	-114	0.48	0.28	<0.1	33	5	NA	NA	NA	606

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W606</u>	Description of Sample Point:	<u>E. Nedrow, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 05.72"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 29.69"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1621</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/01/2021	Well buried	7.12	7.92	20.2	175	-165	<0.05	0.01	<0.1	11	<2	NA	NA	NA	556
08/18/2021	Well buried	7.30	7.79	20.1	162	-148	<0.05	<0.01	<0.1	8	<2	NA	NA	NA	446

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W607</u>	Description of Sample Point:	<u>T. Shawley, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 18.41"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 09.12"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21J</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1490</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/01/2021	1451.8	6.89	7.29	18.9	134.0	-125.00	0.99	0.66	<0.1	9	<2	NA	NA	NA	308
10/18/2022	ND	7.34	7.58	13.3	137	-124.000	0.60	0.60	0.60	<0.1	11.00	<2	NA	NA	320.0

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P608</u>	Description of Sample Point:	<u>D. Brougher, Pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 52.12"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 40.86"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1809</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/09/2021	NA	5.93	6.53	20.1	<10	5	<0.05	<0.01	<0.1	8	20	NA	NA	NA	98
08/19/2021	<1	6.70	7.08	18.6	18	-3	0.83	0.07	<0.1	<5	5	NA	NA	NA	62

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S609</u>	Description of Sample Point:	<u>D. Brougher, Spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 50.59"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 40.20"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>24Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1824</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/09/2021	<1	5.61	6.01	19.4	<10	4	<0.05	<0.01	<0.1	9	<2	NA	NA	NA	75
08/19/2021	<1	5.83	5.96	18.9	<10	10	<0.05	<0.01	<0.1	8	<2	NA	NA	NA	77

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W610</u>	Description of Sample Point:	<u>D. Plevelich, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 29.46"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 49.56"</u> W	Existing use(s)	<u>Domestic/Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1926</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
07/23/2021	Well Cap Stuck	6.95	7.62	20.2	80	-70	0.95	0.13	<0.1	13	4	NA	NA	NA	296
08/27/2021	1895.6	7.26	7.70	19.5	80	-63	0.46	0.12	<0.1	16	2	NA	NA	NA	287

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W611</u>	Description of Sample Point:	<u>S. Haseltine, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 33.49"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 27.72"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1670</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/10/2021	1588.9	7.18	7.56	20.6	126	-115	0.05	<0.01	<0.1	13	3	NA	NA	NA	278
12/14/2021	1588.7	7.08	7.70	14.8	106	-96	0.16	0.02	<0.1	17	4	NA	NA	NA	282

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W612</u>	Description of Sample Point:	<u>J. Grimes, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 17.48"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 01.11"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21B</u>	Planned future use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1874</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/10/2021	Buried/not hooked-up														
01/03/2022	Buried/not hooked-up														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W613</u>	Description of Sample Point:	<u>J. Grimes, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 18.69"</u> N and		<u>Donegal Marine Sales</u>
Permit No:	<u>65131301</u>	Longitude:	<u>79° 24' 03.70"</u> W	Existing use(s)	<u>Commercial</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1874</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/10/2021	Buried	6.75	7.09	19.8	84	-71	3.68	0.52	<0.1	38	5	NA	NA	NA	424
01/03/2022	Buried	6.46	7.13	9.7	80	-69	8.32	0.24	<0.1	17	16	NA	NA	NA	361

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W614</u>	Description of Sample Point:	<u>J. Demarchi, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 34.54"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 24.36"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1772</u> feet	If sampling point is a well, when was it drilled:	<u>1994</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/10/2021	1760.7	7.59	7.94	21.6	107	-94	0.35	0.02	<0.1	16	4	NA	NA	NA	334
12/15/2021	1754.8	7.12	7.81	14.3	55	-46	<0.05	<0.01	<0.1	14	<2	NA	NA	NA	167

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W615</u>	Description of Sample Point:	<u>J. Demarchi, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 35.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 21.48"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22S</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1802</u> feet	If sampling point is a well, when was it drilled:	<u>1990</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/10/2021	1777.7	7.33	7.69	20.9	58	-44	<0.05	<0.01	<0.1	16	<2	NA	NA	NA	160
12/15/2021	1787.9	7.26	8.11	13.2	98	-88	3.29	0.10	<0.1	13	10	NA	NA	NA	309

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P616</u>	Description of Sample Point:	<u>J. Demarchi, pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 33.46"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 27.36"</u> W	Existing use(s)	<u>Recreational</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1746</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/10/2021	<1	6.94	7.53	22.1	44	-21	0.64	0.15	0.1	<5	10	NA	NA	NA	228
12/15/2021	NA	7.23	7.60	12.8	40	-27	0.31	0.02	0.2	7	6	NA	NA	NA	211

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W616A</u>	Description of Sample Point:	<u>J. Demarchi, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 37.33"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 17.12"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1906'</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/15/2021	1833.1	7.43	8.06	15.3	99	-87	<0.05	<0.01	<0.1	10	<2	NA	NA	NA	222
05/31/2022	1832.9	7.47	7.88	21.7	96	-83	<0.05	<0.01	<0.1	11	<2	NA	NA	NA	215
10/25/2022	1831.7	7.92	7.99	20.1	93	-87	<0.05	0.04	<0.1	11	<2	NA	NA	NA	229

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W617</u>	Description of Sample Point:	<u>C. Crownover, well</u>	
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 19.96"</u>	N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 05.52"</u>	W		
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21J</u>	Existing use(s)	<u>Domestic</u>	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1513</u>	feet	Planned future use(s)	<u>Same</u>
					If sampling point is a well, when was it drilled:	<u>1976</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/11/2021	*	7.59	8.00	18.9	171	-160	<0.05	0.24	<0.1	<5	<2	NA	NA	NA	396
12/17/2021	*	7.16	8.16	16.5	163	-152	<0.05	0.21	<0.1	<5	<2	NA	NA	NA	389
*Owner reused access to well to get static water level. Sample taken from tap. Owner refused access to pressure tank.															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W618</u>	Description of Sample Point:	<u>C. Shaffer, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 29.39"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 38.28"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22H</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1553</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/12/2021	Buried	8.34	8.49	19.1	203.0	-191	0.14	0.01	<0.1	<5	<2	NA	NA	NA	411
11/24/2021	Buried	8.40	8.37	11.5	189	-179.000	0.13	0.01	<0.1	<5	<2	NA	NA	NA	413

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S619</u>	Description of Sample Point:	<u>C. Shaffer, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 29.89"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 38.64"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22H</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1551</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/12/2021	Springhouse dry														
11/24/2021	Damp														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P620</u>	Description of Sample Point:	<u>C. Shaffer, pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 28.76"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 42.46"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22H</u>	Planned future use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1532</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/12/2021	<1	7.38	7.53	21.6	52.0	-36	1.21	0.49	0.20	<5	10	NA	NA	NA	125
11/24/2021	Frozen	8.21	7.48	5.7	39	-25.000	0.86	0.20	0.20	8.0	22.00	NA	NA	NA	120

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P621</u>	Description of Sample Point:	<u>C. Shaffer, pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 26.79"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 36.04"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22H</u>	Planned future use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1530</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/12/2021	<1	7.45	7.22	22.4	31.0	-15	2.58	0.14	<0.1	<10	8	NA	NA	NA	61
11/24/2021	Frozen	7.86	7.14	8.0	35	-18	2.26	0.16	<0.1	<5	6	NA	NA	NA	88

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W622</u>	Description of Sample Point:	<u>J. Gallagher, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 52.73"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 05.66"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>250</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1866</u> feet	If sampling point is a well, when was it drilled:	<u>1990</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/12/2021	*	7.14	7.60	19.8	85.0	-75	3.40	0.52	<0.1	<5	14	NA	NA	NA	179
12/22/2021	*	7.16	7.35	14.1	82	-77	13.00	2.50	0.40	6	52	NA	NA	NA	182
* Unable to remove well cap															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W623</u>	Description of Sample Point:	<u>R. Rosswog, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 33.81"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 31.94"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22M</u>	Existing use(s)	<u>None</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1670</u>	feet	Planned future use(s) <u>Same</u>
					If sampling point is a well, when was it drilled: <u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
05/07/2021	ND	7.44	7.74	12.4	120	-62	0.19	0.06	0.08	8	8	NA	NA	NA	306
08/13/2021	1663.2	7.28	6.95	19.3	50	-33	2.76	0.17	2.3	<10	88	NA	NA	NA	122
12/18/2023	1552.7	7.45	7.62	13.1	77	-58	1.05	0.28	0.30	10	50	NA	NA	NA	438

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W624</u>	Description of Sample Point:	<u>R. Rosswog, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 32.42"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 30.28"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1646</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/13/2021	1569.2	7.37	7.66	20.8	125	-112	0.20	0.10	1.50	7	2	NA	NA	NA	285
12/18/2023	1592.6	7.36	7.91	18.0	122	-108	0.21	0.58	2.0	9	6	NA	NA	NA	320
*Well is located on S. Haseltine's property but services Rosswog dwelling															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S628</u>	Description of Sample Point:	<u>D. Mulhollem, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 29.07"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 18.67"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>16N</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1664</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/13/2021	<1	7.89	7.48	22.6	100	-87	0.49	0.98	<0.1	<5	4	NA	NA	NA	1110
12/17/2021	<1	7.14	7.70	11.3	84	-66	<0.05	0.35	<0.1	7	<2	NA	NA	NA	405

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S629</u>	Description of Sample Point:	<u>D. Mulhollem, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 30.52"</u>		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 10.08"</u>	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>160</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1670</u>	feet	If sampling point is a well, when was it drilled: <u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/13/2021	<1	7.31	7.08	23.8	51	-40	11.70	0.27	7.50	9	82	NA	NA	NA	331
12/17/2021	2	7.10	7.14	11.6	36	-17	0.38	0.27	0.10	14	19	NA	NA	NA	356

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W632</u>	Description of Sample Point:	<u>D. Klein, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 31.30"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 50.64"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1933</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/16/2021	1866.9	7.47	7.08	22.3	60.0	-49	0.31	0.01	<0.1	12	<2	NA	NA	NA	177
12/16/2021	1866.6	6.91	7.61	66.4	69	-57	0.84	0.04	<0.1	11	4	NA	NA	NA	183

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S634</u>	Description of Sample Point:	<u>G. Gerhart, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 57.39"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 46.44"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19G</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1802</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/20/2021	3	5.65	6.04	23.3	19.0	-5	0.06	<0.01	<0.1	13	18	NA	NA	NA	225
12/14/2021	<1	6.57	6.64	11.8	18	-6	0.27	0.08	0.50	12.0	16	NA	NA	NA	270
10/17/2022	ND	6.82	6.88	12.5	15	0	3.22	0.48	4.00	12.0	151	NA	NA	NA	318

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S635</u>	Description of Sample Point:	<u>S. Gross, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 03.62"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 41.01"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1789</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/24/2021	<1	7.28	7.51	21.8	116	-99	<0.05	<0.01	<0.1	22	<2	NA	NA	NA	287
12/14/2021	<1	6.92	7.93	14.2	110	-101	<0.05	<0.01	<0.1	19.0	<2	NA	NA	NA	298

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S636</u>	Description of Sample Point:	<u>S. Gross, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 03.43"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 39.95"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1788</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/24/2021	<1	7.67	8.08	22.6	125	-103	0.92	0.12	1.0	20	20	NA	NA	NA	305
12/14/2021	<1	7.09	8.01	13.6	115	-104	0.61	0.06	0.50	19	<2	NA	NA	NA	308

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W637</u>	Description of Sample Point:	<u>E. Hissem, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 12.32"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 21.72"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1546</u> feet	If sampling point is a well, when was it drilled:	<u>1958</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/24/2021	Buried	7.81	8.28	21.9	199	-183	0.09	0.02	<0.1	6	<2	NA	NA	NA	555
05/31/2022	Buried	7.92	8.37	20.3	196	-184	0.11	0.01	<0.1	<5	<2	NA	NA	NA	568

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W638</u>	Description of Sample Point:	<u>D. Hegeman, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 27.59"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 28.44"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22M</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1589</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/24/2021	*	7.16	8.11	18.9	138	-125	1.26	0.15	<0.1	7	<2	NA	NA	NA	282
12/17/2021	*	7.56	7.99	16.1	141	-131	0.44	0.12	<0.1	6	<2	NA	NA	NA	298
*Obstruction at 21.4'															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P639</u>	Description of Sample Point:	<u>D. Hegeman, pond</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 27.13"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 27.70"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22M</u>	Existing use(s)	<u>Recreation</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1590</u>	feet	Planned future use(s) <u>Same</u>
					If sampling point is a well, when was it drilled: <u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/24/2021	No Flow	7.44	7.77	18.7	50	-34	0.48	0.34	<0.1	5	10	NA	NA	NA	121
12/17/2021	No Flow	7.78	7.53	13.5	38	-24	0.49	0.05	<0.1	8	4	NA	NA	NA	122

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S640</u>	Description of Sample Point:	<u>E. Clair, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 16.43"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 45.80"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21B</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1684</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/27/2021	<1	5.75	6.34	21.8	14	5	2.07	0.14	<0.1	12	7	NA	NA	NA	1030
12/16/2021	<1	6.06	5.90	12.4	<10	5	0.28	0.04	0.20	10	48	NA	NA	NA	1330

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S641</u>	Description of Sample Point:	<u>E. Clair, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 16.07"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 45.96"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21B</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1683</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/27/2021	Too low to sample											NA	NA	NA	
12/16/2021	Damp														

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W642</u>	Description of Sample Point:	<u>M. Coffman, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 13.26"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 23.52"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1534</u> feet	If sampling point is a well, when was it drilled:	<u>2010</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/27/2021	1517.0	6.75	7.20	24.2	74	-60	<0.05	0.75	<0.1	13	4	NA	NA	NA	392
12/14/2023	1510.30	7.23	7.52	17.1	76	-63	0.06	0.75	<0.1	12.0	<2	NA	NA	NA	366

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W643</u>	Description of Sample Point:	<u>W. Ritenour, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 45.58"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 53.88"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>18A</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1741</u> feet	If sampling point is a well, when was it drilled:	<u>1966</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/27/2021	Buried	7.08	7.78	25.7	121	-108	5.36	0.85	<0.1	<25	6	NA	NA	NA	241
12/16/2021	Buried	7.54	8.16	19.4	116	-105	3.00	0.44	<0.1	<10	<2	NA	NA	NA	240

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S646</u>	Description of Sample Point:	<u>R. Shawley, spring</u>	
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 23.38"</u>	N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 20.40"</u>	W		
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21S</u>	Existing use(s)	<u>Domestic</u>	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1681</u>	feet	Planned future use(s)	<u>Same</u>
					If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/30/2021	0.80	7.02	7.70	12.6	225	-212	0.17	<0.01	0.2	23	6	NA	NA	NA	454
12/14/2021	<1	7.14	7.55	15.7	233	-222	<0.05	<0.01	<0.1	18	<2	NA	NA	NA	494

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S647</u>	Description of Sample Point:	<u>R. Shawley, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 21.58"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 17.88"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21S</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1684</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/30/2021	ND	7.20	7.32	13.1	191	-175	0.19	0.03	0.2	19	2	NA	NA	NA	381
12/14/2021	ND	7.18	7.39	16.3	121	-108	0.43	0.03	0.60	9	4	NA	NA	NA	265

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W652</u>	Description of Sample Point:	<u>M. Gerhart, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 53.64"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 07.44"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19F</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1843</u> feet	If sampling point is a well, when was it drilled:	<u>2013</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/02/2021	1816.6	7.28	6.01	20.2	13	-2	2.35	1.01	0.5	<5	22	NA	NA	NA	79
01/05/2022	1827.6	7.44	8.06	12.8	120	-111	0.46	0.53	0.2	<5	<2	NA	NA	NA	253

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W653</u>	Description of Sample Point:	<u>M. Bitner, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 21.07"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 10.92"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21J</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1487</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/03/2021	Buried	6.80	7.44	12.9	129	-112	2.30	0.43	<0.1	7	4	NA	NA	NA	294

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W654</u>	Description of Sample Point:	<u>C. Carlson, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 16.39"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 22.08"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1509</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/03/2021	1479.30	7.40	8.57	11.9	173	-158	<0.05	0.01	<0.1	<5	2	NA	NA	NA	751
12/07/2023	1478.80	8.51	8.37	11.1	177	-162	0.07	0.01	<0.1	<5	<2	NA	NA	NA	726

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>P655</u>	Description of Sample Point:	<u>C. Carlson, pond</u>	
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 16.43"</u>	N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 22.80"</u>	W		
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21I</u>	Existing use(s)	<u>Husbandry</u>	
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1503</u>	feet	Planned future use(s)	<u>Same</u>
					If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/03/2021	8.00	7.26	7.70	12.5	69	-56	0.20	0.31	<0.1	13	2	NA	NA	NA	546
12/07/2023	5.00	7.56	7.49	10.5	74	-54	0.28	0.31	<0.1	15	5	NA	NA	NA	481

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S656</u>	Description of Sample Point:	<u>C. Carlson, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 15.20"</u>	N and	
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 23.16"</u>	W	
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21I</u>	Existing use(s)	<u>Husbandry</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1511</u>	feet	Planned future use(s) <u>Same</u>
					If sampling point is a well, when was it drilled: <u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/03/2021	2.00	6.72	6.75	11.1	31	-16	0.18	0.06	<0.1	11	8	NA	NA	NA	284
12/07/2023	20.00	7.31	7.64	12.0	73	-59	1.51	0.55	0.2	13	20	NA	NA	NA	507

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W657</u>	Description of Sample Point:	<u>J. Laird, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 13.40"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 35.16"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20C</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1691</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/03/2021	1645.70	7.26	8.12	20.1	162	-148	0.22	0.03	<0.1	8	<2	NA	NA	NA	589

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W658</u>	Description of Sample Point:	<u>C. Clark, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 33.74"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 43.08"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>22Q</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1915</u> feet	If sampling point is a well, when was it drilled:	<u>1990</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
09/13/2021	1894.80	7.22	7.49	19.3	77	-64	0.58	0.02	<0.1	15	20	NA	NA	NA	325
12/08/2021	1889.20	7.44	7.98	14.6	86	-72	0.37	0.01	<0.1	13	<2	NA	NA	NA	294

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W660</u>	Description of Sample Point:	<u>E. Nedrow, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 04.08"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 30.36"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20I</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1612</u> feet	If sampling point is a well, when was it drilled:	<u>1990</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/07/2023	1566.40	8.86	8.24	12.6	249	-234	<0.05	<0.01	<0.1	<10	<2	NA	NA	NA	502
03/04/2024	1569.20	8.60	8.74	17.60	252	-233	<0.05	<0.01	<0.1	<5	<2	NA	NA	NA	506

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S664</u>	Description of Sample Point:	<u>P. Obrien-Smith, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 13.19"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 57.12"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1777</u> feet	If sampling point is a well, when was it drilled:	<u>NA</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
11/30/2023	37	6.50	6.96	12.7	15	3	<0.05	<0.01	<0.1	8	<2	NA	NA	NA	60
01/22/2024	75	7.25	7.24	8.4	16	2	0.10	<0.01	<0.1	10	<2	NA	NA	NA	70

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W665</u>	Description of Sample Point:	<u>B. Snyder, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 11.96"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 18.00"</u> W	Existing use(s)	<u>Domestic/Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20N</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1657</u> feet	If sampling point is a well, when was it drilled:	<u>1993</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
11/30/2023	1629.27	7.53	7.97	13.1	100	-87	0.46	0.04	<0.1	9	<2	NA	NA	NA	469
03/11/2024	1619.80	7.31	7.94	14.20	95	-77	0.39	0.08	<0.1	10	<2	NA	NA	NA	473

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W666</u>	Description of Sample Point:	<u>R. White, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 08.76"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 21' 10.80"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20N</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1735</u> feet	If sampling point is a well, when was it drilled:	<u>1920</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
12/14/2023	1676.60	7.48	7.93	15.6	122	-110	0.41	0.29	<0.1	8	<2	NA	NA	NA	620
03/04/2024	Refused	7.76	7.62	18.30	113	-98	0.20	0.15	<0.1	9	<2	NA	NA	NA	615

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W667</u>	Description of Sample Point:	<u>R. Rega, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 02.96"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 34.67"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1754</u> feet	If sampling point is a well, when was it drilled:	<u>2004</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/20/2024	1719.20														
03/13/2024	1720.80														
No sample, well not hooked up															

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>S668</u>	Description of Sample Point:	<u>R. Rega, spring</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 04.24"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 35.26"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>19R</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1774</u> feet	If sampling point is a well, when was it drilled:	<u>N/A</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
01/20/2024	1.60	7.28	7.82	11.4	96	-77	<0.05	<0.01	<0.1	16	<2	NA	NA	NA	248
03/13/2024	15.00	7.45	7.72	13.20	98	-75	<0.05	<0.01	<0.1	17	<2	NA	NA	NA	249

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W669</u>	Description of Sample Point:	<u>J. McCain, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 08.96"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 23' 38.09"</u> W	Existing use(s)	<u>Husbandry</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>20C</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1725</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/04/2024	1692.40	7.24	7.57	14.5	164	-135	5.08	0.03	<0.1	10	20	NA	NA	NA	579

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W670</u>	Description of Sample Point:	<u>K. Trout, well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 07' 28.47"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 20' 57.99"</u> W	Existing use(s)	<u>Domestic</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>21P</u>	Planned future use(s)	<u>Same</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1928</u> feet	If sampling point is a well, when was it drilled:	<u>2018</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
08/25/2022	1832.90	6.52	6.40	17.6	28	-11	17.70	1.16	<0.1	14	32	NA	NA	NA	168
03/13/2024	1836.20	6.41	6.65	18.70	26	-16	15.20	0.90	<0.1	11	44	NA	NA	NA	191

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W671</u>	Description of Sample Point:	<u>N. Hoffer, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 38.21"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 48.39"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Outdoor</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1836</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/14/2024	1762.40	7.16	7.40	16.2	84	-72	15.80	0.95	0.70	12	78	NA	NA	NA	533
04/17/2024	1763.40	7.21	7.24	18.4	74	-66	14.00	4.46	0.20	14	19	NA	NA	NA	458

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined

FORM 8.13A
☒ BACKGROUND or ☐ MONITORING REPORT
(Check appropriate block)

Operator:	<u>LCT Energy, LP</u>	Monitoring Point I.D.:	<u>W672</u>	Description of Sample Point:	<u>N. Hoffer, Well</u>
Operation Name:	<u>Rustic Ridge #1 Expansion</u>	Latitude:	<u>40° 06' 38.58"</u> N and		
Permit No:	<u>65131301</u>	Longitude:	<u>79° 22' 47.65"</u> W	Existing use(s)	<u>None</u>
Township:	<u>Donegal/Saltlick</u>	Grid Coordinate:	<u>17G</u>	Planned future use(s)	<u>Outdoor</u>
County:	<u>Westmoreland/Fayette</u>	Surface Elevation:	<u>1838</u> feet	If sampling point is a well, when was it drilled:	<u>Unknown</u>

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity mg/l	Iron mg/l	Manganese mg/l	Aluminum mg/l	Sulfate mg/l	Suspended Solids mg/l	Total Dissolved Solids (mg/l)	Osmotic Pressure	Chlorides	Spec. Cond. (m-mho)
03/14/2024	1763.80	6.91	7.55	16.2	54	-44	6.07	1.30	0.40	23	22	NA	NA	NA	575
04/17/2024	1763.80	7.42	7.45	16.8	55	-46	0.72	0.12	<0.1	19	12	NA	NA	NA	597

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Comments: NA=Not applicable; ND=Not Determined