Healthy People. Healthy Communities.

May 17, 2022

Mr. Tony Hobson
New-Indy Catawba, LLC
5300 Cureton Ferry Road
PO Box 7
Catawba, SC 29704

Re: Steam Stripper, Aerated Stabilization Basin (ASB), and Post-Aeration Tank – TRS Condensate Collection and Treatment Test Report – Conducted July 9-11, 2021

Dear Mr. Hobson,

The referenced test report has been reviewed by the Department, and the results and operating parameters from the report are summarized below:

Steam Stripper, ASB, and Post-Aeration Tank

RSK-175 Concentration Ranges	Hydrogen Sulfide (µg/L)	Methyl Mercaptan (µg/L)	Dimethyl Sulfide (µg/L)	Dimethyl Disulfide (µg/L)
Foul Condensate Inlet	14.2 – 156,776	0.258 – 12,242	0.339* – 8,111	1.006* – 12,689
Foul Condensate Outlet	156 – 99,291	2.10 – 1,144	8.48 – 3,392*	4.75 – 10,057*
ASB Influent	0.101 – 1,479	0.112* – 936	8.77 – 1,669	1.006* – 8,637
ASB Zone 1	4.04 – 37,493	0.112* – 247	1.85 – 1,019	1.006* – 2,569
ASB Zone 2	20.0 – 5,600	11.8 – 113*	0.339* – 339*	1.006* – 1,006*
ASB Zone 3	0.043* – 160	0.112* – 8.19	0.337* – 22.6	1.002* – 101
ASB Effluent	0.165 – 53.9	0.112 – 2.62	1.69 – 27.0	1.006* – 7.91
Post-Aeration Basin Inlet	0.257 – 2.46	0.113* – 3.84	0.337* – 9.40	1.002* – 21.1
Post-Aeration Basin Surface	0.253 – 62.9	0.112* – 9.03	0.337* – 21.4	1.002* – 59.3
Post-Aeration Basin Outlet	0.043* – 212	0.112* – 3.84	0.337* – 9.40	1.002* – 21.1

*Value is the Method Reporting Limit, some MRLs may be higher than others due to dilution.

Operating Parameters	Range	Average
Pulp Production (ODTP/day)	1,356 – 1,694	1,553 (95%)*
Steam Stripper Inlet Foul Condensate Flow (gal/min)	490 – 496	493
ASB Inlet Liquid Flow (Million gal/day)	20.8 – 21.7	21.3
Foul Condensate Hardpipe to ASB Flow (Million gal/day)	0.33 – 0.35	0.34
ASB Outlet Liquid Flow (Million gal/day)	21.2 – 22.0	21.7
Post Aeration Tank Flow (Million gal/day)	19.3 – 25.1	23.0
Aerator Horsepower (hp)**	2,775 – 3,150	2,900

*Permitted pulp production limit of 1,825 air dried tons of unbleached paper per day.
**The number of aerators operational during each testing day ranged from 37 to 42.

Sample Site – pH	Range	Average
Foul Condensate Inlet	8.12 – 8.52	8.29
Foul Condensate Outlet	7.86 – 9.81	8.82
ASB Influent	8.52 – 9.38	8.94
ASB Zone 1	7.85 – 9.22	8.28
ASB Zone 2	7.98 – 8.65	8.33
ASB Zone 3	7.82 – 8.74	8.37
ASB Effluent	7.31 – 7.58	7.47
Post-Aeration Basin Inlet	7.60 – 7.69	7.65
Post-Aeration Basin Surface	7.78 – 7.99	7.86
Post-Aeration Basin Outlet	7.75 – 7.90	7.81

Sample Site – Temperature (°F)	Range	Average
Foul Condensate Inlet	124 – 138	133
Foul Condensate Outlet	107 – 153	131
ASB Influent	109 – 114	112
ASB Zone 1	89.3 – 101	95.4
ASB Zone 2	84.3 – 94.8	90.3
ASB Zone 3	82.9 – 92.1	88.2
ASB Effluent	84.2 – 91.6	88.8
Post-Aeration Basin Inlet	84.5 – 85.2	84.7
Post-Aeration Basin Surface	83.6 – 84.9	84.1
Post-Aeration Basin Outlet	Static	84.3

Sample Site – Dissolved Oxygen (mg/L)	Range	Average
ASB Influent	0.15 – 0.51	0.31
ASB Zone 1	0.02 – 1.99	0.29
ASB Zone 2	0.02 – 0.79	0.15
ASB Zone 3	0.27 – 2.59	1.50
ASB Effluent	0.07 – 1.98	0.68
Post-Aeration Basin Inlet	0.25 – 3.68	1.49
Post-Aeration Basin Surface	2.88 – 15.3	7.15
Post-Aeration Basin Outlet	0.74 – 18.0	7.30

Liquid samples were analyzed for TRS compounds using three separate test methods. This report only summarizes the EPA Method RSK-175 test results. Per EPA's 114 Information Request dated June 30, 2021, the only acceptable test method is EPA Method RSK-175. Data from the other two test methods were not evaluated for this report.

Review of the RSK-175 results found that certain replicate samples returned vastly different results. Investigation into these differences yielded no definitive source of error. The results summarized within this summary letter are derived from all data in the referenced test report. The RSK-175 results provide information on the TRS emissions from the Steam Stripper, ASB, and Post-Aeration Tank.

If I can be of further assistance, please contact me at (803) 898-3856 or email me at monroedn@dhec.sc.gov.

Sincerely,

David N. Monroe
Environmental Health Manager
Source Evaluation Section
SCDHEC Bureau of Air Quality

Cc: Compliance File 2440-0005

Ec: Michael Verzwyvelt, BAQ
Dawn Jordan, BAQ
Brittany Staples, BAQ
Katharine Buckner, BAQ
Colleen Jordan, Midlands Region – Lancaster BEHS