



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

November 10, 2010

RE: TRI-CAST, LTD
3PR00412*AD
SUMMIT COUNTY
SPRINGFIELD TWP.

Mr. John C. Vaught Jr.
Tri-Cast Ltd.
2128 Killian Rd.
Akron, Ohio 44312

Dear Mr. Vaught:

On November 5, 2010 this writer conducted a compliance evaluation inspection of your facility. You accompanied me during the inspection. The following observations were made:

- 1) The aeration tank was being properly aerated. The contents were a dark chocolate brown.
- 2) The sludge return was operating. There is no skimmer or skimmer return.
- 3) There was a small accumulation of duck weed floating on the surface of the clarifier tank.
- 4) The sand filters need to be cleared of accumulated weeds.
- 5) The distribution box needs to be sealed as it was leaking.
- 6) The chlorinator/dechlorination chamber is being operated a little different than originally designed. The boxes and the concrete weirs are submerged. However the effluent was clear.

Overall the plant appeared to be operating well. A review of your compliance history for the time period of December 1, 2005 through September 2010 revealed the following violations of your effluent limits:

Numeric Violations

Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	Total Suspended Solids	30D Conc	12	13.	3/1/2007
001	Nitrogen, Ammonia (NH3)	30D Conc	3.0	22.	3/1/2007
001	Nitrogen, Ammonia (NH3)	7D Conc	4.5	22.	3/8/2007
001	Total Suspended Solids	30D Conc	12	23.	12/1/2005
001	Total Suspended Solids	7D Conc	18	23.	12/1/2005
001	Nitrogen, Ammonia (NH3)	30D Conc	3.0	19.	12/1/2005
001	Nitrogen, Ammonia (NH3)	7D Conc	4.5	19.	12/1/2005
001	Nitrogen, Ammonia (NH3)	30D Conc	1.0	9.95	8/1/2006
001	Nitrogen, Ammonia (NH3)	7D Conc	3.0	9.95	8/15/2006

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Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	Fecal Coliform	1D Conc	2000	4550.	8/18/2006
001	Fecal Coliform	30D Conc	1000	4550.	8/1/2006
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	26.25	3/1/2006
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	26.25	3/8/2006
001	CBOD 5 day	30D Conc	10	11.	3/1/2006
001	pH	1D Conc	6.5	6.02	3/8/2006
001	Nitrogen, Ammonia (NH3	30D Conc	1.0	5.25	6/1/2006
001	Nitrogen, Ammonia (NH3	7D Conc	3.0	5.25	6/8/2006
001	Chlorine, Total Residu	1D Conc	0.038	.08	6/12/2006
001	pH	1D Conc	6.5	6.42	6/12/2006
001	Total Suspended Solids	30D Conc	12	171.	8/1/2008
001	Total Suspended Solids	7D Conc	18	171.	8/8/2008
001	Nitrogen, Ammonia (NH3	30D Conc	1.0	33.25	8/1/2008
001	Nitrogen, Ammonia (NH3	7D Conc	3.0	33.25	8/8/2008
001	CBOD 5 day	30D Conc	10	13.	8/1/2008
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	15.9	12/1/2007
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	15.9	12/8/2007
001	pH	1D Conc	6.5	6.04	12/11/2007
001	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.5	6/1/2007
001	Chlorine, Total Residu	1D Conc	0.038	.1	6/4/2007
001	Nitrogen, Ammonia (NH3	30D Conc	1.0	4.65	6/1/2008
001	Nitrogen, Ammonia (NH3	7D Conc	3.0	4.65	6/8/2008
001	Chlorine, Total Residu	1D Conc	0.038	.22	6/9/2008
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	44.5	3/1/2008
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	44.5	3/8/2008
001	Chlorine, Total Residu	1D Conc	0.038	.15	8/6/2007
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	5.8	12/1/2009
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.8	12/15/2009
001	Nitrogen, Ammonia (NH3	30D Conc	1.0	2.7	6/1/2010
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	7.4	12/1/2008
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	7.4	12/8/2008
001	CBOD 5 day	30D Conc	10	11.	12/1/2008
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	13.6	3/1/2010
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	13.6	3/22/2010
001	Fecal Coliform	1D Conc	2000	2080.	8/27/2009
001	Fecal Coliform	30D Conc	1000	2080.	8/1/2009
001	Nitrogen, Ammonia (NH3	30D Conc	3.0	8.	3/1/2009
001	Nitrogen, Ammonia (NH3	7D Conc	4.5	8.	3/15/2009
001	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.55	6/1/2009

Frequency Violations

Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	Odor, Severity	1/Week	1	0	06/01/2006
001	Turbidity, Severity	1/Week	1	0	06/01/2006

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Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	Water Temperature	1/Week	1	0	09/22/2006
001	Color, Severity	1/Week	1	0	09/22/2006
001	Odor, Severity	1/Week	1	0	09/22/2006
001	Turbidity, Severity	1/Week	1	0	09/22/2006
001	Turbidity, Severity	1/Week	1	0	09/22/2007

We note that most of the numeric violations occurred in the earlier years of the permit and that improvements have been made in 2009 and more notably in 2010.

During the inspection we also went over your NPDES permit renewal application. It is now complete and you indicated it would be submitted shortly. It was also pointed out that you need to put together a Storm Water Pollution Prevention Plan (SWPPP). The following USEPA Web site provides a template which you can use to prepare this plan for your company: http://www.epa.gov/npdes/pubs/msgp2008_swppptemplate.doc.

Progress needs to be made in relation to waste and recyclable foundry sand related materials that are exposed to precipitation and storm water runoff. This should be addressed in your SWPPP. The SWPPP should be completed by the end of January 2011.

If you should have any questions, feel free to contact this writer at (330) 963-1136 or by e-mail at phil.rhodes@epa.state.oh.us.

Sincerely,



Philip P. Rhodes, P.E.
Environmental Specialist II
Division of Surface Water

PPR/mt

File: Industrial permit/compliance