

**Farming Trials with the Industrial Vortex Energiser—
September 2011**

Two years ago we were approached by Nigel Clay, a supplier of natural products to the farming industry. A gifted dowser and water diviner, Nigel came to us with a view of testing the Industrial Vortex Energiser on farms. Over the last year Nigel has been working with several farmers, implementing CIR's Industrial Vortex Energisers (IVEs). On 11 Sept 2011, Dolly and Jonathan met Nigel and Perry Beard a dairy farmer in Gloucestershire. Perry Beard has a herd of 125 cows. The following report is based on video recordings taken that day:



Perry Beard's herd of cows

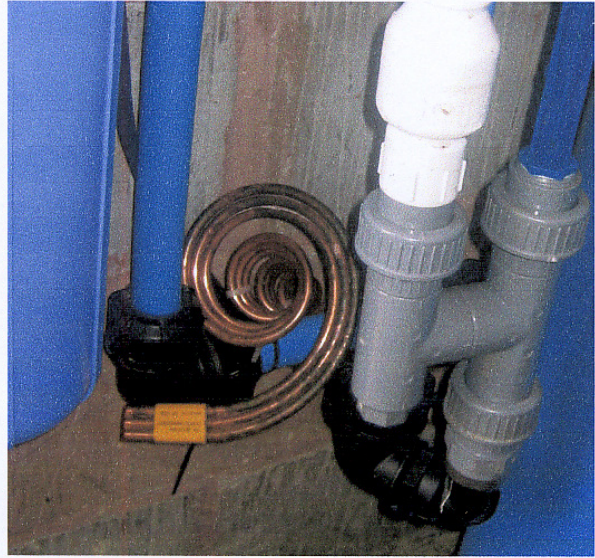
Perry works very long hours and found that his energy levels were low. Three years ago, Nigel suggested he wore a Personal Harmoniser which he did and discovered that his energy levels improved. He also noticed that he stopped having the repeated indigestion he was having after breakfast every day.

In August 2010 Nigel supplied and attached an Industrial Vortex Energiser (IVE) to Perry's water supply. After a few weeks Perry noticed that the water troughs were staying clear. On 17 Dec 2010 his water supply was disrupted and he had to rely on water delivered by tanker, which felt dead and dull.

When his water supply was reinstated, the difference in the water was very noticeable. The water had a sparkle and again the cloudiness and smell from the water troughs cleared. As Nigel explained, the cows' sense of smell is 10 times more developed than the human sense of smell. They clearly appreciate good quality water.

Slurry lagoon

Slurry (waste from the cows) is pumped into a lagoon, where it decomposes before it is spread on the fields. Characteristically this decomposition is slow and gives off a



An Industrial Vortex Energiser attached to Perry's water supply pipe

very unpleasant smell. For the past 5 years Perry has been using enzymes to help with the decomposition.

In the last 12 months Perry made some changes. He introduced microbes to the lagoon and put the IVE on the pipe through which the slurry was pumped into the lagoon. Perry noticed within a short time of making these changes that the lagoon had become a living and moving organism. A crust developed on the surface with frothy bubbles appearing through cracks in the crust. As the crust was digested by the microbes it dropped down below the surface. Then the lagoon looked like a water based pond before more solids floated back up forming another crust and the process carried on.

Perry invited some farm and soil specialists to have a look at his lagoon. They were totally amazed that the lagoon had so much movement and was alive. Even with the addition of microbes, the lagoon should not have been behaving in this way and working so efficiently, and Perry only used 75% of



Perry, Nigel and Dolly on the ramp leading to a now almost empty lagoon



Slurry from the lagoon has turned into compost—no smell



Slurry was spread onto this field 5 days before picture was taken. There were no signs or smell of slurry. Slurry had already been fully integrated into the soil. Notice lush growth of grass despite dry weather

the recommended quantity of microbes. In fact, Perry's lagoon is causing a bit of a stir in the local farming community and he often has people gazing over his hedge to see what is going on.

Perry's living lagoon is turning over slurry in record time producing 9 units of available nitrogen (compared to 5 - 6 units from untreated slurry), and there is no smell!

The slurry is then spread on the fields using the pumped umbilical system. Normally it would take 4 - 6 weeks before the slurry is integrated into the soil and before cows can graze. This year, Perry has been able to let his cows graze in the

fields after only 10 - 14 days of slurry spread, because the slurry has no smell and is integrated into the soil readily. The cows are grazing the grass right down. Also, the cows are now eating dock leaves, which they would normally avoid. Despite this year being the driest since 1976, the slurry has been feeding the grass, producing lush growth and enabling more grazings per field this season than previous years. Even the cow pats are now breaking down faster.

Because Perry farms intensively, he is still using some fertiliser, but has been able to reduce the amounts used. Despite the price of fertiliser going up dramatically, he has been able to keep his costs down because he is using less.

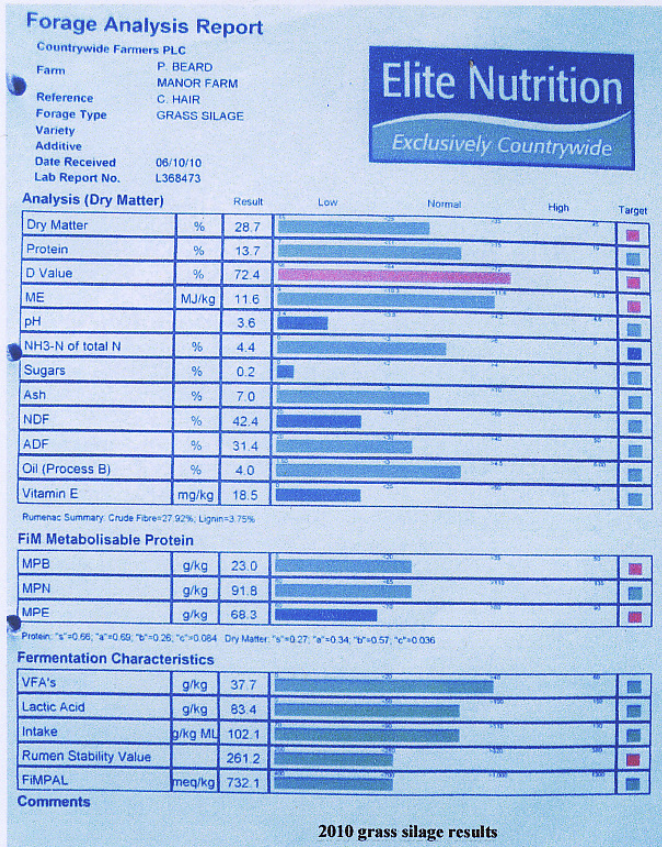
Name: R Beard & Son
Number: GL8089 Trumpet

Mr J Williams 07803 286823
MONTHLY REPORT
August-11

MONTHLY RESULTS			12 MONTH RESULTS		
Aug-10	Aug-11	Month Change	Last Year	This Year	Year Change
STOCK					
120	124	3%	124	125	1%
40	60	50%	106	107	0%
3	4	100%	77	33	21%
MILK PRODUCTION					
25,035	28,013	litres 12%	1,042,284	1,089,504	litres 5%
30	30	litres 0%	415	360	litres -13%
15.9	15.1	ltr/day -5%	8,443	8,725	litres 3%
6	10	ltr/day 56%	3,802	4,248	litres 12%
4.32	4.46	%	4.32	4.21	%
3.42	3.65	%	3.33	3.34	%
18	140	9	13	113	15
24.00	28.00	p 17%	25.68	27.20	p 6%
FEED					
4.7	3.1	kg/day -35%	2,300	2,211	kg -4%
0.30	0.20	kg -32%	0.27	0.25	kg -7%
180	225	£ 25%	205	232	£ 13%
0	0	£	50	11	£ -77%
4.8	3.1	kg/day -36%	2,411	2,266	kg -6%
5.39	4.58	p -15%	6.17	6.01	p -3%
MARGINS					
4,665	6,568	£ 41%	203,381	230,984	£ 14%
39	53	£ 36%	1,647	1,849	£ 12%
18.61	23.42	p 26%	19.51	21.19	p 9%
FORAGE					
Change in MOPF/cow/month of +£14.09			2.01	1.98	cows/ha -1%
Change in milk litres per cow			7,638	8,417	litres 10%
Change in milk price per litre			3,309	3,664	£ 11%
Change in conc. use per cow					
Change in p.feed price					

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High quality, clean sweet smelling grass silage

Analysis reports are showing the quality of Perry's grass silage has improved this year compared to last year, notably the protein content (see results). We looked at his silage bay and noticed that the silage was very clean and sweet smelling, when normally silage has an acrid smell. This is also reflected in the improved pH value for this year.

The most important factors for Perry's business is that his overall production costs have fallen. His herd's milk production and quality have improved (see page 3). His herd's yearly average yield is up by 3% and he has been able to reduce his concentrate use by 4%.

The dramatic improvement in grass growth in the fields due to application of energised slurry has improved his 'yield from forage' by a staggering 12%, making his milk production that much more profitable.

It is quite remarkable that such improvements have been achieved despite the dry weather.

On a final note, Perry has noticed that the overall health of his herd has improved. The cows' coats are shiny and the energy in the milking parlour has changed. The cows are now calm and contented.

Nigel Clay is currently working with 5 other farmers. Early indications from farms such as Brian Hudson's in Staffordshire are echoing Perry's results. Brian's slurry lagoon has been energised with the IVE and treated with seaweed. Brian has commented that the smell has noticeably improved and that the slurry treated in this way is as good as any fertiliser. Watch this space...

