Growth through Diversity

IPPS International Conference 2014

Michael Norris

New Place Nurseries Ltd

"The merits of good supplier relationships"





Who We are: Roundstone Group

- New Forest Plants-Herbaceous Plant Nursery –Beaulieu New Forest
- New Place Nurseries Ltd- Liner producer and tree grower Pulborough West Sussex
- Roundstone Nurseries –
 growers of Bedding Plants, Pot
 Plants ,rooted cuttings and seed
 raised plugs
- □ Form Roundstone group –
- 73 Acres Glass 150 Acres of hardy nursery stock production
- Supply Sheds , Retail outlets,
- Independent GC and GC Chains
- 200 People 400 Seasonal staff

Roundstone Group Head Office







part of the roundstone group

Liner Production for Wholesale Nurseries



Container Tree Production for Independent GC







part of the roundstone group

Hebe and Lavender Production on Sand



IPPS Members Survey NPN Production





Why did review Tree Production

- We had a problem that needed fixing
- Coldest Summer in 2012-High levels of Summer Rainfall and cold temperatures
- Problem was highlighted in release pattern of crf
- 3kg 9m Basacote and 3kg 12m Basacote per m3
- Severe nutrient problem need corrective action
- Ground analysis taken- coldness effect nutrient release
- Consultation with KD technical staff
- Summary- Coating did not break down enough to give us sufficient release
- In Partnership with Klasmann we looked at options
- Corrective Top Dressing using Floranid P, 6g/l



How can we move forward?

- Consultation with KD Technical staff
- Review release pattern of our CRF and did it fit?
- We concluded to reduce to and 8-9 month product Osmocote Exact
- Exact release pattern to suit crop requirements
- Saving 2kgs per m3 on 1200 m3 =2.5Tonnes fertiliser
- Monitor closely our progress, graphing nutrient release
- Monitor temperature, water and pH



Background information

- To safeguard tree crop cultivation an analytical monitoring programme was agreed between New Place Nurseries Ltd and KD crop service
- Sample at different crop stages and the feedback about analytical results with an evaluation by KD and NPN for 2013
- Corrective measures can be taken during crop production at the earliest stage if required







Background information

- Sampling in May, June, July, September 2013, carried out by New Place Nurseries Ltd
- Samples collected and sent to LUFA laboratory, Germany
- Offered by KD as crop service for New Place (costs covered by KD)
- Full NPK-Analysis
- Additionally water analysis conducted in June







process- nr.	mple	date ▼	customer	sample name	~	laborator =	type of analysis
0917	1	22. Mai.	New Place Nursery	Extra Lime Late Apple OR 3		Lufa OL	chemical analysis substrate
0917	2	22. Mai.	New Place Nursery	Extra Lime Late Apple OR 3		Lufa OL	chemical analysis substrate
0917	3	22. Mai.	New Place Nursery	Semi-Eric Late Cotoneaster C	OC 6	Lufa OL	chemical analysis substrate
0917	4	22. Mai.	New Place Nursery	Semi-Eric Early Birch BE 05		Lufa OL	chemical analysis substrate
0917	1	10. Jun.	New Place Nursery	APPLE ORCHARD 3		nrm	chemical analysis substrate
0917	2	10. Jun.	New Place Nursery	COTONEASTER SEMI ERI		nrm	chem. analysis water
0991	1	20. Jun.	New Place Nursery	MAINS WATER CARV		nrm	chem. analysis water
0991	2	20. Jun.	New Place Nursery	LAKESIDE		nrm	chem. analysis water
0991	3	20. Jun.	New Place Nursery	RESERVOIR		nrm	chem. analysis water
0991	4	20. Jun.	New Place Nursery	AFTER FILTERS		nrm	chem. analysis water
0991	5	20. Jun.	New Place Nursery	BIRCH BED 5		nrm	chem. analysis water
0991	1	23. Jul.	New Place Nursery	Extra Lime (Late) Apple OR 4		Lufa OL	chemical analysis substrate
0991	2	23. Jul.	New Place Nursery	Extra Lime (Early) Prunus OR 2		Lufa OL	chemical analysis substrate
0991	3	23. Jul.	New Place Nursery	Semi-Eric (Late) Cotoneaster DC 6		Lufa OL	chemical analysis substrate
0991	4	23. Jul.	New Place Nursery	Semi-Eric (Early) Birc. Bed 5		Lufa OL	chemical analysis substrate
0991	1	13. Sep.	New Place Nursery	Extra Lime Plum,		Lufa OL	chemical analysis substrate
0991	2	13. Sep.	New Place Nursery	Extra Lime Plum,		Lufa OL	chemical analysis substrate
0991	3	13. Sep.	New Place Nursery	Semi-Eric,		Lufa OL	chemical analysis substrate
0991	4	13. Sep.	New Place Nursery	Semi-Eric (Early),		Lufa OL	chemical analysis substrate
0991	5	13. Sep.	New Place Nursery	Extra Lime Apple,		Lufa OL	chemical analysis substrate
0991	6	13. Sep.	New Place Nursery	Extra Lime Apple,		Lufa OL	chemical analysis substrate
0991	7	13. Sep.	New Place Nursery	Extra Lime, Prunus		Lufa OL	chemical analysis substrate
0991	8	13. Sep.	New Place Nursery	Extra Lime, Apple		Lufa OL	chemical analysis substrate

Overview samples 2013 for New Place Nurseries Ltd



Analytical monitoring in 2 labs (NRM and LUFA)



WILLIAM BAILEY

KLASMANN-DEILMANN GMBH GEORG KLASMANN STRATE 2-1

D49744 GERMANY

X251

NEW PLACE

COMPOST

Please quote above code for all enquiries

COMPOST ANALYSIS RESULTS

Sample Reference :

Report Number Sample Number APPLE ORCHARD 3

COMPOST Sample Matrix :

Date Received 06-JUN-2013 Date Reported 07-JUN-2013

92594

Laboratory References

The sample submitted was of adequate size to complete all analysis requested. The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS on 'as received' basis.

Determinand	Value	Units	Determinand	Value	Units
рH	5.06		Cond. at 20 C	215	uS/cm
Density	287	kg/m3	Ammonia-N	27.2	mg/l
Dry Matter	29.3	%	Nitrate-N	125.9	mg/l
Dry Density	84.1	kg/m3	Total Soluble N	153.1	mg/l
Chloride	29.4	mg/l	Sulphate	113.0	mg/l
Phosphorus	11.0	mg/l	Boron	0.15	mg/l
Potassium	76.5	mg/l	Copper	0.11	mg/l
Magnesium	32.3	mg/l	Manganese	0.18	mg/l
Calcium	119.5	mg/l	Zinc	0.18	mg/l
Sodium	18.2	mg/l	Iron	1.05	mg/l

The extraction is performed by adding a weight of sample equivalent to 60mls volume to 300mls of deionised water (ref BSEN 136\$2:2 Samples submitted under 1 litre will necessitate the use of scaled down equipment for density determination. pH and Conductivity measurements are made at 20°C. I.S. = Insufficient Sample.

Released by A. J. Morgan

07/06/13

NRM Ltd. Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS Tel: +44 (0) 1344 886338 Fax: +44 (0) 1344 890972 Email: enquiries@nrm.uk.com www.nrm.uk.com

Institut für Boden und Umwelt

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Klasmann-Deilmann GmbH

Georg-Klasmann-Str. 2-10 49744 Geeste

Labor für gärtnerische Erden, Substrate und Wasser

Jägerstr. 23 - 27 26121 Oldenburg Telefon: (04 41) 801-845 Telefax: (04 41) 801-863 Email: lufa@lufa-nord-west.de http://www.lufa-nord-west.de (DAkkS



Datum: 23.07.2013

Bankverbindung: LzO Oldenburg BLZ: 280 501 00 - Kto.: 660 886 Prüfbericht

Seite: 2 von 2

Kunden-Nr.: 852215 Probeneingang: 19.07.2013 Beginn der Prüfung: 19.07.2013 Ende der Prüfung: 23.07.2013 Probenehmer/Berater: Extern/ Unbekannt

Alle Angaben in g bzw. mg / Liter

					Kalk pH-Wert CaCl2			Salz- gehalt	Stick- stoff #6	Phos	Phosphat Kali		li	Sonstige Untersuchungen		
Proben-Nr.	Probenbezeichnung	Nut- zung		Volumen- Gewicht trocken g/Liter	anzu- streben	festge- stellt	Kalk- bedarf dt/ha CaO	Ge- halts- klasse	g H2O	mg N CaCl2	mg P2O5 CAL	Ge- halts- klasse	mg K2O CAL	Ge- halts- klasse		
1413008444	1413008444 Semi-Eric (Early) Birc. Bed 5															
		Z		110	-	3,9	-	-	1,240	189	123	-	365		NO3-N (CaCl2) 163 mg/Liter NH4-N (CaCl2) 26 mg/Liter Calcium (Formiat) #6 748 mg/Liter Magnesium(CaCl2) 108 mg/Liter	

Name/Firma: New Place Nurseries, Great Britain

Berater: W. Bailey, H. Konnemann

H. Eilers (Laborleiter)

8441 - 8444: Umhüllte Dünger vor Untersuchung ausgelesen

22 - ET. Clinichte (23 - ET. Clinichte (24 - ET. EL) (Clinichte (34 - E

LUFA NORD-WEST: Ein Unternehmen der Landwirtschaftskammer Niedersachsen - Sitz : 26121 Oldenburg - Jägerstraße 23-27 - UST-Ident.Nr.: DE 245 610 284



Matrix of pH test results of orders for New Place Nursery, UK

Mix Name	Sample Name	Potting date	production date	Target pH	Post production pH	Lufa** pH (CaCl2)	Lufa** pH (CaCl2)	nent	Lufa** pH (CaCI2)
				CaCI2 (H20)	CaCI2 (H20)	CaCI2 (H20)	CaCI2 (H20)		CaCI2 (H20)
					day of production	23.05.2013	23.07.2013	treatment	13.09.2013
NP#3 Apple Mix	Early Prunus	Nov 12	15.11.2013	5.6 (6.30)	5,6	5.4 (5.90)***	3.8 (5.90)	+	5.0 (5.50)
NP#3 Apple Mix	Apple orchard 3	Feb 13	25.02.2013	5.6 (6.30)	5,3	5.0 (5.50)	4.2 (5.50)	+	5.0 (5.50)
further samples for comparison									
retained sample NP#3 Apple Mix	8081128302	-	12.12.2012	5.6 (6.30)	5,4	-	-		-
retained sample NP#3 Apple Mix	8081427001	=	16.01.2013	5.6 (6.30)	5,5	-	-		-
NP#2 Tree Mix (semi Ericaceous)	Birch	Jan 13	07.01.2013	4.7 (5.20)	4,7	4.2 (4.70)	3.9 (4.40)		4.5 (5.00)
NP#2 Tree Mix (semi Ericaceous)	Cotoneaster	Apr 13	29.03.2013	4.7 (5.20)	4,7	4.5 (5.00)	3.7 (4.20)		3.6 (4.10)
further samples for comparison									
retained sample NP#2 Tree Mix	8081128301	-	12.12.2012	4.7 (5.20)	4,8	-	-		-
retained sample NP#2 Tree Mix	8081561901	-	24.01.2013	4.7 (5.20)	4,5	-			
retained sample NP#2 Tree Mix	8081969902	-	27.02.2013	4.7 (5.20)	4,6	-	-		-

^{**}CaCl2 method (LUFA method) for comparison, all processes of pH measurement at Klasmann are based on the more exact German CaCl2 method



^{***}NRM tesed in H20 (water analysis), difference between both methods is usually about ~0,5 pH steps but variation is possible

Conclusion 2013

- Overall nutrient supply turned out to be adequate in 2013
- But a surprise drop of pH value in the substrate became obvious after the first testing in May
- Water analysis was carried out and carbonate levels turned out to be very low
- Treatment of plants to increase pH-value was considered and actioned
- For future deliveries of substrate, the mix composition was adjusted to supply more calcium carbonate for balancing ph / water influence







SUMMARY

- Don't beat your supplier up
- Work together, you need them as much as they need you
- Its not all about price......
- Be professional, listen and apply what technical trained people tell you
- That is what they are paid to do
- If you include them they become part of your team
- We don't have the answers to all the questions
- Stick to the plan –too often trial work falls by the bottom of your desk
- Be proactive –look for new ideas to make it better
- Include your team in all discussions and formulate new ideas with them





Working togethor for future growth

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