

COMMERCIAL IN CONFIDENCE



**TRIAL OF ZOONO ANTIMICROBIAL PRODUCTS  
G8 EDUCATION CHILD CARE FACILITIES,  
MELBOURNE, AUSTRALIA.  
SEPT - NOV 2019  
  
FINAL REPORT**

Zoono Group Limited,  
Auckland, New Zealand.  
6<sup>th</sup> November 2019

## EXECUTIVE SUMMARY

### BACKGROUND:

In September 2019, G8 Education Ltd invited New Zealand based Zoono Group to demonstrate efficacy and longevity of Zoono Microbe Shield within a dynamic, Child Care environment. As a result, a trial was arranged

### LOCATION:

This trial was undertaken within ten (10) nominated G8 Education Child Care facilities across Melbourne, VIC.

### TRIAL PROTOCOL:

Within each facility, ten (10) different locations were benchmarked before treatment and then re-evaluated at 10 Minutes, 15 Days and 30 Days after treatment. Swabs were taken and enumerated via ATP, with all results recorded. The memory function within the ATP device has been retained for verification purposes.

### THE PRODUCT:

The product used for this trial was Zoono Microbe Shield Surface Sanitiser, manufactured by Zoono Group Limited, Auckland, New Zealand.

### METHOD:

Zoono product was applied topically to the 10 identified surfaces within each facility. There was no change to any / all existing Housekeeping / Health and Safety protocols – meaning any difference (+/-) could be attributed to the *additional* presence of the Microbe Shield product.

### RESULTS:

- *The use of the Zoono antimicrobial **reduced** the average ATP count across all treated surfaces in each facility by **96.92% after 10 minutes** within the nominated areas.*
- *Similarly, the average ATP count across all Zoono treated surfaces within in each facility **reduced by 85.29% - 15 Days after treatment** within the nominated areas.*
- *Finally, the average ATP count across all Zoono treated surfaces within in each facility **reduced by 85.94% - 30 Days after treatment** within the nominated areas.*

The Zoono product assessed in this trial was found to have demonstrated statistically significant efficacy and persistence across 30 days, in reducing the total number of pathogens (ATP) on the nominated surfaces across all 10 facilities. As such, the product trial is considered a success.

### WAS THE OBJECTIVE ACHIEVED?

The Zoono product assessed in this trial was found to have demonstrated statistically significant efficacy and persistence across 30 days, in reducing the total number of pathogens (ATP) on the nominated surfaces across all 10 facilities. As such, the original trial objective has been satisfied and the trial can be considered a success.



.....  
Lew MacKinnon  
Auckland, NZ  
5 November 2019



.....  
Paul Morrison  
Auckland, NZ  
5 November 2019



**G8 EDUCATION LTD**  
**TRIAL OF ZOONO BRANDS - MELBOURNE CHILD CARE CENTRES**  
**FINAL REPORT – NOVEMBER 2019**

**INTRODUCTION:**

Cleaning and disinfecting surfaces within Child Care facilities using traditional products, can effectively remove / kill pathogens on surfaces, but studies have shown that surfaces are usually re-contaminated within minutes.

Traditionally, pathogens have been killed by one of two methods: via poison or via rapid dehydration (due to the presence of alcohol). Whilst both methods are effective, they promote mutation – and this leads to the evolution of superbugs.

This trial evaluates a unique, water based quaternary ammonium (QAC) product that bonds to surfaces to produce a long-lasting surface coating that delivers continuous disinfecting action over extended periods.

**THE PRINCIPALS:**

G8 Education owns and operates care and education services in Australia and Singapore through a range of well-respected quality brands. The company floated in December 2007 under the name Early Learning Services Limited before merging with Payce Child Care Pty Ltd in 2010 to become G8 Education. Today, G8 Education Limited is the largest ASX listed (ASX:GEM) Child Care centre operator in Australia.

The New Zealand based Zoono Company was born in 2008 and has, over time, taken the original QAC technology discovered in 1914 to new levels of efficacy and durability. This technology is considered Zoono IP and is a closely held trade secret. This IP has not been the subject of a Patent application as the process would allow competitors to follow Zoono's IP direction(s). During 2016, Zoono Group Limited listed on the Australian Stock Exchange (ASX:ZNO) whilst retaining its (Auckland) New Zealand operational base.

**INVITATION:**

- G8 Education Ltd became aware of Zoono brands via a staff member who had previously worked for a New Zealand based distributor supplying Child Care.
- In August 2019, Zoono CEO Paul Hyslop met with G8 (and their supplier partner WINC) and presented Zoono brands.
- As a result of the meeting, Zoono agreed to submit a proposed Scope of Works for a trial to be conducted on Zoono brands within 10 facilities in the Melbourne area.
- G8 was to identify 10 sites that were 'geographically friendly' and Zoono agreed to treat all sites (as per the Scope of Works) and to monitor / report back results taken at 0, 15 and 30 days.
- Zoono brands were to be applied via a touch point program only and used *in addition* to current cleaning protocols within each facility. This meant the results would be measured on a 'like for like' basis.
- All 'Zoono' related costs associated with the trial were to be borne by Zoono Group Limited.

**TRIAL DATES:**

30th September – 1st November 2019

**OBJECTIVE:**

The objective of the trial was to assess the performance of Zoono antimicrobial products within nominated G8 Child Care facilities over a period of 30 Days. It was agreed Zoono personnel were to visit 10 x nominated sites on three occasions:

- Initial testing (Before and after Zoono treatment – to become the baseline tests)
- Retesting 15 Days after the Zoono treatment
- Retesting 30 Days after the Zoono treatment
- A report on the trial was to be forwarded to G8 within 5 days of completion.

**PREWORK:**

A trial protocol was submitted to G8 covering how the trial would be conducted / how the ATP results would be collated / and how the results would be submitted.

In advance of the initial visits, Zoono sent sample packs to each facility to allow parents and staff members alike to experience Zoono brands. Scott Annett (WINC) had contacted all facilities in advance of our visit, so all parties were aware of the schedule (and the work being done on site).

**PRODUCTS**

Three Zoono products were used for the duration of the trial:

- Zoono Microbe Shield was applied to all (test) surfaces. Made in NZ, Microbe Shield is approved for food contact and food packaging contact applications.
- Zoono Hand Sanitiser (GermFree24 Alcohol Free) was provided to each centre for evaluation purposes. GermFree24 also enjoys MPI approvals for use in food preparation environments.
- Zoono Wipes were also supplied to each centre for evaluation purposes.

**HOW ZOONO WORKS:**

When manufactured, the Silane part of the Zoono molecule starts as trimethoxysilane (or silyl), but once placed in water an equilibrium is formed between the trimethoxy and trihydroxysilane. This equilibrium keeps the molecule as a monomer and inhibits the molecule from bonding or growing as a polymer until it dries. Once drying occurs, the first of the three available hydroxyl groups forms a covalent bond immediately, the second bond occurs several days later and the third a similar period again. The initial association to the substrate is made through the attraction of the positively charged cation to the surfaces that exhibit a negative character in the aqueous media. Once the first bond occurs, the molecule is permanently attached to the surfaces during the time frame for the second and third covalent bond, stereochemical-rotation occurs and the molecule may covalently bond to the surface or to itself forming a network polymer that encapsulates the surface being treated. This rotation allows for a uniform layer of antimicrobial protection. The silanol functionality which enables this molecule to homopolymerise helps account for the durability of this technology.

The mechanism works the same on bacterial or viral cells. On direct contact with micro-organisms the technology works by disrupting (or rupturing) the cell membrane. This interrupts the normal life processes and destroys the cell. Two forces cause this interruption: the quaternised Nitrogen acts as an 'electrocuting' charge and the 18 carbon length chain acts as a sword or puncturing agent. The structure is ideal for taking advantage of the anionic nature and the lipoprotein composition of the microbial membranes. Since the antimicrobial acts only on the membrane and does not lose strength over time, it does not create the conditions which allow for a sub-lethal dose - thus allowing microorganisms to develop an increased resistance to the given microorganism.

## **PROTOCOL:**

An agreed trial methodology was followed in all facilities. The use of Zoono product was to complement existing cleaning protocols to provide a 'like for like' assessment of brand performance. Zoono personnel conducted ATP testing on 10 identified locations within each facility at 10 minutes, 15 Days and 30 Days and kept manual / electronic records of readings.

## **THE TRIAL:**

2 x Zoono Group personnel were assigned to the trial:

- Lew MacKinnon (Chief Operating Officer, Zoono, Auckland).
  - Led the Hospital trial, ICU Unit, Monmouth Medical, NJ, USA. 2015.
  - Has been with Zoono Group since inception in 2008.
- Paul Morrison (BDM, Zoono, Auckland)
  - Has been with Zoono Group for ~5 years.

Both personnel completed NZ Police checks.

On entering each location, sign in procedures were completed via Xplor Hub / iPad. Senior centre staff accompanied Zoono personnel and actively engaged in discussions about the trial / the technology etc.

## **SCOPE AND METHOD**

### **a. Objectives:**

Assess the performance of Zoono Antimicrobial products over a 30-Day period.  
Create a baseline of ATP results in order to be able to compare and to contrast the performance of Zoono products at 0, 15 and 30 days.

### **b. Baseline Tests:**

Zoono personnel to identify 10 x touch points / sampling locations within each facility.  
Photographs of each touch point location to be taken / kept for data collection purposes only.

Each of the touch points to be swabbed to record an 'Initial ATP Test' for that location. Results are to be kept in a binder – one sheet for each location.

Zoono personnel to then treat these same touch points via 'spray and wipe' techniques only and only using microfibre cloth / paper towels.

A second ATP swab is to be taken from all 10 x touch points within the facility after the touch point application has been completed / allowed to dry (after 10 minutes). This set of results become the ATP readings at 0 days / 10 Minutes.

### **c. Tests at 15 Days:**

Zoono personnel to return to each site.

Each touch point is to be wiped with a (new) paper towel – this is to remove any surface debris only. An ATP swab test is to be taken at each location with results recorded on a spreadsheet / kept in a binder.

### **d. Tests at 30 Days:**

Zoono personnel to return to each site.

Each touch point is to be wiped with a (new) paper towel – this is to remove any surface debris only. An ATP swab test is to be taken at each location with results recorded on a spreadsheet / kept in a binder.

## ATP TECHNOLOGY

- **What is ATP?**

ATP (adenosine triphosphate) is present in all organic material and is the universal unit of energy used in all living cells. ATP is produced and/or broken down in metabolic processes in all living systems. Processes such as photosynthesis in plants, muscle contraction in humans, respiration in fungi and fermentation in yeast are all driven by ATP. A typical luminometer (in conjunction with ATP swab) uses bioluminescence to detect residual ATP as an indicator of surface cleanliness. The presence of ATP on a surface indicates the presence of contamination, including allergens and/or bacteria.

- **Why is ATP a good measurement of the cleanliness of a surface?**

The relationship between the amount of ATP on the sample and the RLU result reading on the luminometer is simple: Contamination = Presence of ATP = More light produced in snap reaction = High RLU reading on Luminometer. The RLU reading is directly proportional to the amount of ATP collected from the sample. A high RLU reading indicates a large amount of ATP at the test location. This in turn indicates the presence of contaminants. Less ATP results in less light output during the bioluminescent reaction and consequently, a lower RLU reading.

- **How is ATP detected by the ATP device?**

Snap swabs are moistened with a buffer that aids in the removal of any biological material (ATP) on either wet or dry surfaces, while also penetrating through any biofilm to expose underlying cells. The ATP from microbiological cells, in addition to free ATP from any food residue, is collected from the sample surface with the swab, and is then available to react with the unique liquid-stable reagent contained in the device. This reagent is derived from a naturally-occurring enzyme (called luciferase) found in fireflies. When this enzyme reacts with ATP on the swab, a low-level of light is produced that can be detected and quantified by the luminometer.

The amount of light detected is directly proportional to the amount of ATP on the sample, thus giving you a quantitative measure of the cleanliness of the surface where the sample was taken.

- **What does the number result on the luminometer mean?**

The luminometer displays results in RLU (Relative Light Unit) values. The light produced from the reaction between ATP and the enzyme in the snap device reagent is emitted in the form of photons. The luminometer detects these photons, quantifies them, and displays them as an RLU value. This RLU value and the ATP on a surface are in a 1:1 ratio.

Therefore, more ATP present on a surface means more light is emitted in the snap reaction, giving a greater RLU number detected by the luminometer.

- **How do I know I am getting the correct results with the Luminometer and the swabs?**

The luminometer is programmed to self-calibrate every time the instrument is turned on. During the 60-second calibration, it is measuring the temperature and humidity, as well as checking the light sensor.

Zoono ATP devices are regularly checked via a 'positive and negative control test' using a manufacturer Calibration Control Kit.

## RESULTS:

- The ATP tests confirm the trial was a success by proving the Zono product remained active on surfaces for a full 30 days and by doing so, it added an extra layer of antimicrobial protection for children, staff and visitors alike.

In Summary:

- ✓ *The use of Zono Microbe Shield **reduced** the average ATP count (across all treated surfaces in each facility), by **96.92% after 10 minutes** within the nominated areas.*
- ✓ *Similarly, **15 Days** after the Zono treatment had been applied, the average **reduction** in ATP was still **85.29%** within the identified areas.*
- ✓ ***30 days** after the identified surfaces had been treated, the **average reduction** in ATP readings from all trial areas, was **85.94%**.*

## NOTES RELATING TO ATP TESTING

1. ATP testing is binary – the results cannot be influenced by the operator and they reflect what the ATP device detects on the surface. It's important to remember all tests were completed within dynamic, Child Care environments where there was constant activity.
2. A 'high' ATP reading should not be interpreted as a reflection on current protocols adopted by each facility – indeed, some tests could have been 'spiked' by the presence of play dough / paint / cooking ingredients etc that had dried on a surface and could not be removed via a paper towel. Where this was obvious, we have made notes on the Result sheets.
3. Please also note a single 'spike' ATP result can influence an overall result – e.g. in the case of Moonee Ponds, a single swab test at 30 days within the kitchen impacted the overall result but was due to the presence of cooking material on a handle. (This is reflected in the notes). Similarly, an ATP test after 30 days within the Mt Martha Laundry was 16 – whilst the result was better than food contact standard (30) it still represented a 1500% increase from a previous ATP test of 1!
4. The reductions at 30 days are considered to be a reflection of the environmental 'improvement' resulting from the use of the Zono antimicrobial. Indeed, had Zono not been used on Day one, there is no reason to expect any change (any improvement) in surface quality over the subsequent 30 days.
5. Zono has Case Study results on file showing a marked decrease in corporate absenteeism due to the use of Zono product. There is no reason why similar benefits cannot be expected from within Child Care – benefits that can be enjoyed by both staff and children alike.

## FOLLOW UP:

If Zono is confirmed as being the preferred partner for antimicrobial products, parties should formalise the arrangement / confirm exclusivity.

In parallel, Zono, G8 and WINC to schedule a planning session and agree a structured roll out / timeframe.

Zono has already committed to invest in a supporting PR campaign. Details to be agreed.

Parties need to agree on application / usage protocols.

In the interim, parties also need to agree how best to serve the 10 'trial' centres – to avoid any loss of impetus.



**ATTACHED:**

**ATP Results / Photographic Surveys:**

- Craigieburn
- Wallen
- Mooroolbark
- Park Orchards
- Spotswood
- Moonee Ponds
- Boronia
- Berwick
- Pakenham
- Mt Martha

**ACKNOWLEDGEMENTS:**

*We wish to record our appreciation for the support we received from all G8 Centre Managers, Regional Managers and Centre staff throughout this trial.*

*We also wish to thank Scott Annett (WINC) for both his assistance and cooperation throughout this trial and for providing transport during our visits.*

*Lew MacKinnon & Paul Morrison  
Zoono Group Limited, Auckland.*



# Zoono ATP Testing

Customer	<b>PELICAN CHILDCARE</b>
Site Address	19 Princes Circuit
	Craigieburn
	VIC 3064
Contact:	Samantha Jacobs (Sarah)
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION	
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 DAYS	
1	Nursery 1 Bathroom Door Handle (Inside)	1052	44	35	46	5	271	56	384	94.68%	
2	Chrome Basin Tap	98	45	9	47	11	272	3	383	96.94%	
3	Kitchen Door Handle - Inside (Underside)	338	48	33	50	674	273 *	165	386*	51.18%	
4	Kitchen Fridge Door Handle	98	49	29	52	6	275	0	387	100.00%	
5	Pre-Toddler Bathroom Gate	578	53	9	54	26	276	7	388	98.79%	
6	Toddler 1 Phone	137	55	2	57	29	277	12	389	91.24%	
7	Toddler Bathroom RHS Basin Spout	430	56	20	58	8	278	19	390	95.58%	
8	Toddler 2 Out Door Handle Inside	837	59	34	60	83	279	185	391	77.90%	
9	Toddler 2 Overside Light Switch	352	61	15	62	3	281	39	392	88.92%	
10	Kinder Prep Room Tap	206	63	5	64	23	282	118	393	42.72%	
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	SEE NOTES	
Date Tested		30/09/2019	30/09/2019	30/09/2019	30/09/2019	14/10/2019	14/10/2019	30/10/2019	30/10/2019		
Note	1	TEST AREA 3: #273 and #386 - This door is the main thoroughfare for facility staff using the toilet!					0 - 30	Considered Food Safe			
Note	2						31 - 100	Considered clean			
Note	3						101 - 200	Caution!			
Note	4						201 - 500	Contaminated			
Note	5						501 - 1000	High Risk of Infection			
Note	6						1000 +	Extreme Risk of Infection			

# Pelican Child Care - Craigieburn

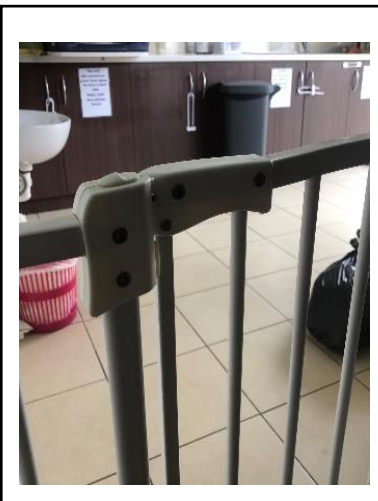
Location 1.

Location 2

Location 3

Location 4

Location 5



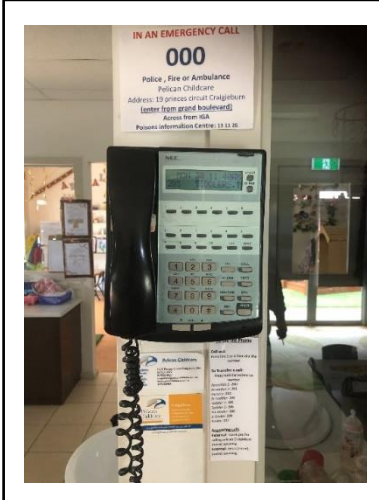
Location 6

Location 7

Location 8

Location 9

Location 10



# Zoono ATP Testing

Customer	<b>CREATIVE GARDEN EARLY LEARNING</b>
Site Address	94 Taylors Lane
	Wallen
	VIC 3756
Contact:	Samantha Falzon
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION	
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days	
1	Main Kitchen Fridge Handle	208	65	13	67	16	283	32	395	84.62%	
2	Microwave Handle	242	65	11	68	57	285	23	394	90.50%	
3	Nursery 2 Sink Taps	148	69	7	75	23	286	8	396	94.59%	
4	Bathroom Inside Door Handle	324	70	11	73	87	287	225	397*	30.56%	
5	Kinder Bathroom RHS Toilet Flush	392	74	10	76	225	288	10	398	97.45%	
6	Kinder Bathroom Sink Tap RHS	6265	75	171	77	57	289	93	399	98.52%	
7	Kinder Phone	319	78	4	79	84	290	4	400	98.75%	
8	Nursery 1 Kitchinette Sink Spout	557	80	6	81	22	291	2	401	99.64%	
9	Reception Sign In iPad Face	120	82	4	85	6	292	6	402	95.00%	
10	Exit Door Inside Handle	392	83	4	85	46	293	8	403	88.27%	
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM		
Date Tested		30/09/2019	30/09/2019	30/09/2019	30/09/2019	14/10/2019	14/10/2019	30/10/2019	30/10/2019		
Note	1	Test #397 - Visible presence of solidified, 'Halloween material' likely to have 'spiked' this ATP test.					0 - 30	Considered Food Safe			
Note	2						31 - 100	Considered clean			
Note	3						101 - 200	Caution!			
Note	4						201 - 500	Contaminated			
Note	5						501 - 1000	High Risk of Infection			
Note	6						1000 +	Extreme Risk of Infection			

# Creative Garden Early Learning, Wallen

Location 1.



Location 2



Location 3



Location 4



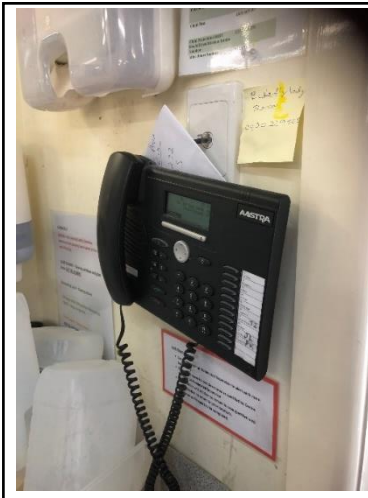
Location 5



Location 6



Location 7



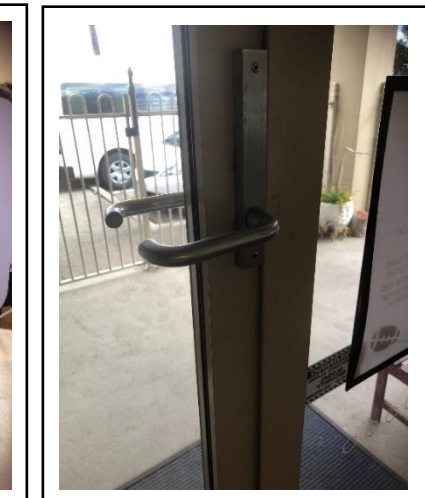
Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>MANCHESTER ROAD EARLY LEARNING</b>
Site Address	6/14 Manchester Road
	Mooroolbark
	VIC 3138
Contact:	Ashleigh Anderson
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**

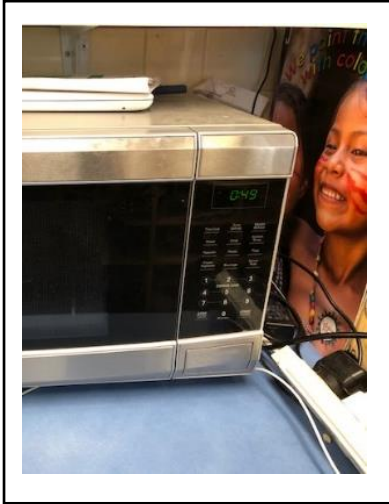


No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days
1	Dolphin Room - Microwave	130	86	3	88	9	294	8	404	93.85%
2	Dolphin Room - Sink tap	98	87	1	89	5	295	7	405	92.86%
3	Dolphin Bathroom RHS Toilet Flush Buttons	549	90	25	92	20	297	3	406	99.45%
4	Dolphin Bathroom RHS Basin Tap	123	91	34	93	20	296	3	407	97.56%
5	Seals Room - Fridge Handle	213	94	4	96	1	298	35	409	83.57%
6	Seals Room - Microwave	130	95	17	97	343	299*	46	408	64.62%
7	Pipis Room - Sink Tap	95	98	26	100	16	300	14	410	85.26%
8	Pipis Room - Deb Dispenser Actuator	654	99	9	101	24	301	7	411	98.93%
9	Pipis Room - Kitchen Microwave	307	102	5	103	130	302	101	412	67.10%
10	Pipis Room - Kitchen Basin Tap	224	Check!	8	104	37	303	16	413	92.86%
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	
Date Tested		1/10/2019	1/10/2019	1/10/2019	1/10/2019	14/10/2019	14/10/2019	30/10/2019	30/10/2019	

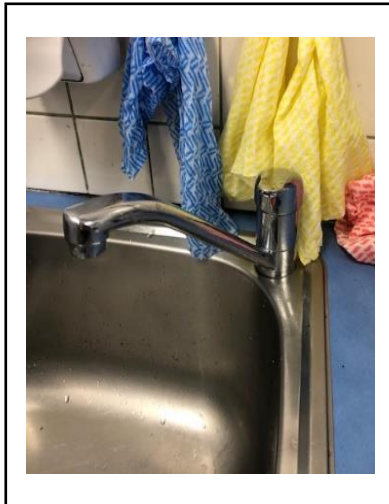
Note	1	Test #299: Debris was visible on the test area but could not be removed via a paper towel.	0 - 30	Considered Food Safe
Note	2		31 - 100	Considered clean
Note	3		101 - 200	Caution!
Note	4		201 - 500	Contaminated
Note	5		501 - 1000	High Risk of Infection
Note	6		1000 +	Extreme Risk of Infection

# Manchester Road Early Learning Centre - Mooroolbark

Location 1.



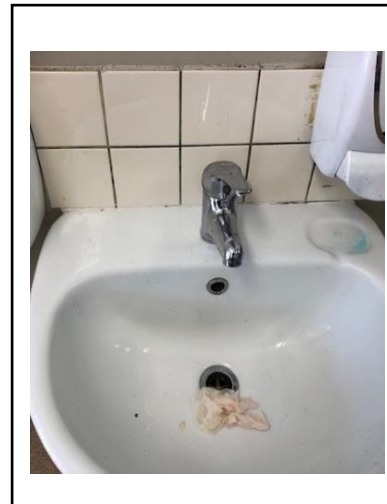
Location 2



Location 3



Location 4



Location 5



Location 6



Location 7



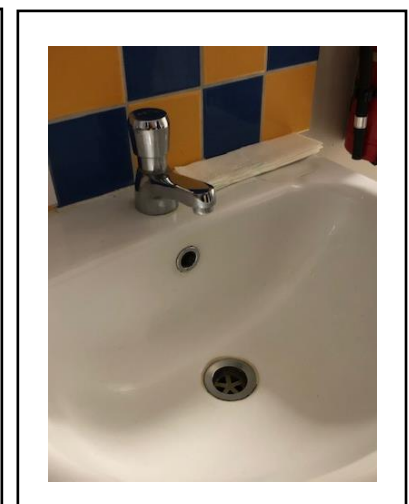
Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>THE LEARNING SANCTUARY</b>
Site Address	239 Warrandyte Road
	Park Orchards
	VIC 3114
Contact:	Ranji Bhanpot
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days
1	Nursery Microwave	21	104	7	109	29	314*	55	424*	-161.90%
2	Nursery Fridge Handle	148	106	63	108	75	315	31	425	79.05%
3	Junior Toddler Room - RHS Toilet Flush Buttons	409	110	30	112	12	316	63	426	84.60%
4	Junior Toddler Room - RHS Basin Tap	48	111	0	113	13	317	15	427	68.75%
5	Pre Kinda Light Switch	112	114	3	116	57	318	11	428	90.18%
6	Pre Kinda Door Handle Inside	1561	115	7	117	99	319	38	429	97.57%
7	Pre Kinda Toilet LHS Button by exit	154	118	8	120	107	320	23	30	85.06%
8	Pre Kinda - Tap Child Basin RHS	113	119	1	121	20	321	9	431	92.04%
9	Pre Kinda - Door Handle Outside Corridor	713	122	0	123	86	322	42	432	94.11%
10	Kitchen Freezer Handle	773	124	9	125	144	323	202	433	73.87%
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	
Date Tested		1/10/2019	1/10/2019	1/10/2019	1/10/2019	15/10/2019	15/10/2019	31/10/2019	31/10/2019	SEE NOTES

Note	1	Test #314 - Despite the increase at 15 days, the Test Result was still within Food Safe parameters.	0 - 30	Considered Food Safe
Note	2	Test #424 - Despite the increase at 30 days, the Test Result was still within 'Clean' parameters.	31 - 100	Considered clean
Note	3		101 - 200	Caution!
Note	4		201 - 500	Contaminated
Note	5		501 - 1000	High Risk of Infection
Note	6		1000 +	Extreme Risk of Infection

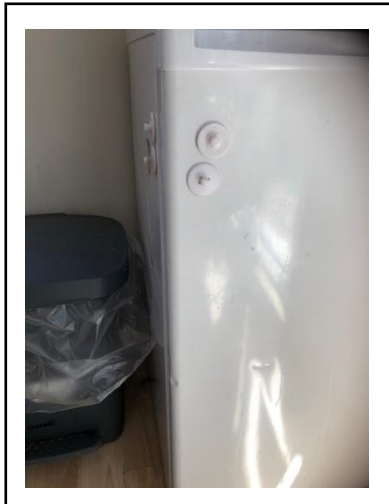


# The Learning Sanctuary – Park Orchards

Location 1.



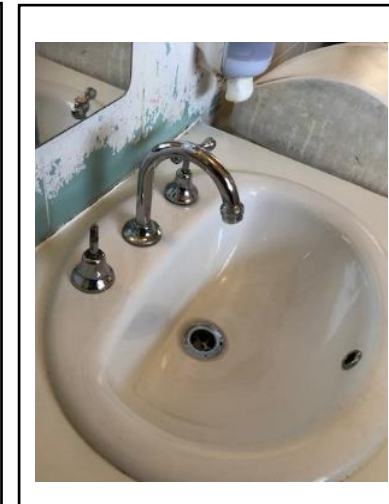
Location 2



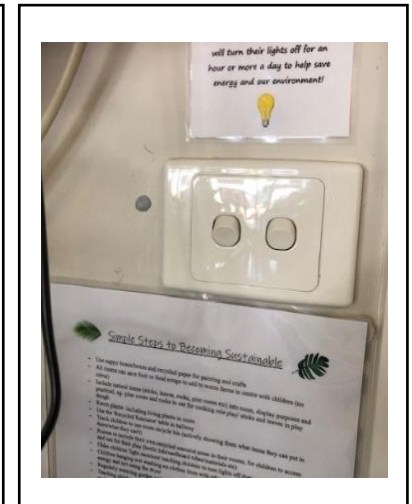
Location 3



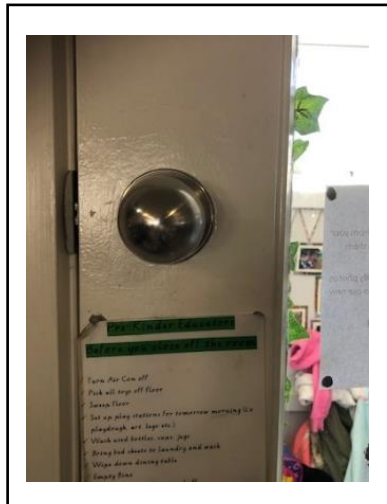
Location 4



Location 5



Location 6



Location 7



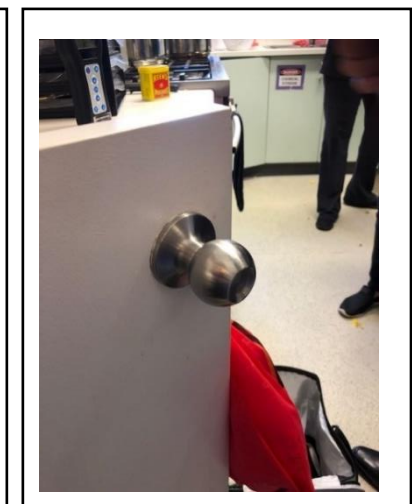
Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>THE LEARNING SANCTUARY</b>
Site Address	132 Hudsons Road
	Spotswood
	VIC 3015
Contact:	Mel Theodorakopoulos
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**

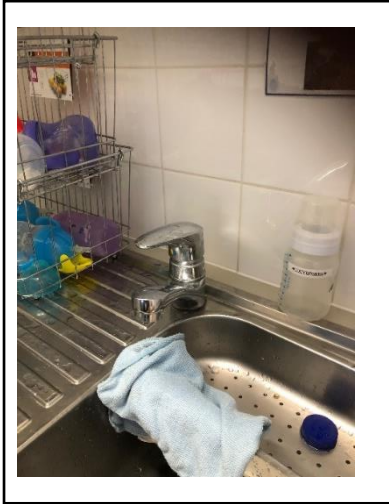


No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days
1	Sugar Gliders Room - Sink Spout	100	146	1	148	17	335	19	445	81.00%
2	Sugar Gliders Room - Microwave	474	147	6	149	30	334	5	444	98.95%
3	Bathroom Toilet Cistern Buttons (CHECK LOCATION)	385	150	4	152	22	336	5	446	98.70%
4	Bathroom Toilet Wash Basin Tap	728	151	15	153	9	337	1	447	99.86%
5	Koala Room Door Handle (Inside to Outside)	530	154	1	156	208	338	62	448	88.30%
6	Kala Room Sink Tap	375	155	5	157	10	339	56	449	85.07%
7	Kitchen LHS Freezer Handle (Top)	239	158	3	160	15	340	2	451	99.16%
8	Kitchen Microwave	332	159	76	161	15	341	14	450	95.78%
9	Inside Lift - Ground Button	1063	162	35	163	60	342	17	453	98.40%
10	Kangaroo Room - RHS Toilet Flush Buttons	282	164	4	165	232	343	21	452	92.55%
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	
Date Tested		1/10/2019	1/10/2019	1/10/2019	1/10/2019	15/10/2019	15/10/2019	31/10/2019	31/10/2019	

Note	1		0 - 30	Considered Food Safe
Note	2		31 - 100	Considered clean
Note	3		101 - 200	Caution!
Note	4		201 - 500	Contaminated
Note	5		501 - 1000	High Risk of Infection
Note	6		1000 +	Extreme Risk of Infection

# The Learning Sanctuary - Spotswood

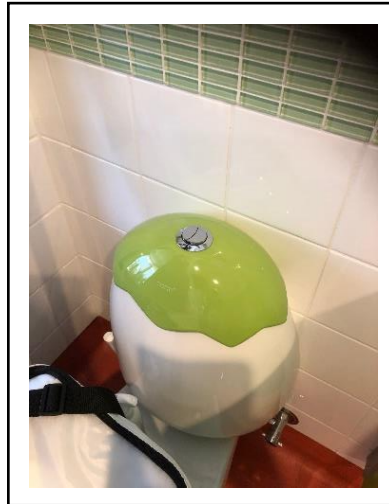
Location 1.



Location 2



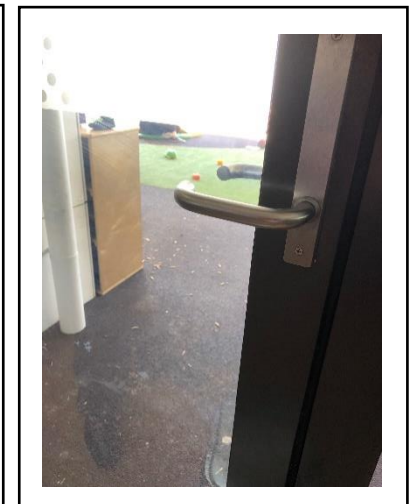
Location 3



Location 4



Location 5



Location 6



Location 7



Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>MOONEE PONDS KINDER HAVEN</b>
Site Address	758 Mt Alexander Road
	Moonee Ponds
	VIC 3039
Contact:	Genevieve Snowden
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



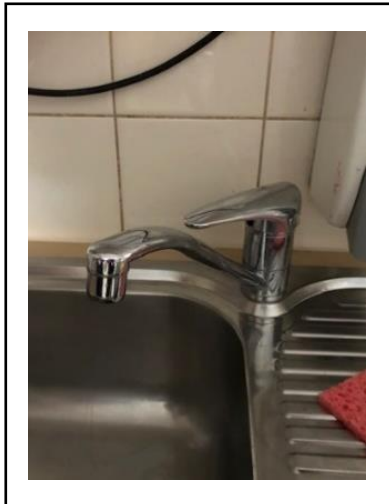
No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION	
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days	
1	Nursery- Microwave	354	126	12	128	11	324	128	434	63.84%	
2	Nursery - Sink Tap	104	127	6	129	50	325	109	435*	-4.81%	
3	Nursery - Change Room Mat (Front Left Corner / Edge)	255	130	31	132	70	326	65	439	74.51%	
4	Nursery - Change Room Tap	242	131	9	133	11	327	2	438	99.17%	
5	Toddler Bathroom IPOD	129	134	6	136	0	328	2	441	98.45%	
6	Toddler Toilet (LHS) Buttons	507	135	19	137	77	329	26	440	94.87%	
7	Laundry Washing Machine Timing Knob	27	138	2	140	1	330	0	442	100.00%	
8	Courtyard Bathroom Door Handle (Inside)	175	139	5	141	32	331	29	443	83.43%	
9	Kitchen Freezer Handle	404	142	13	144	103	332	1236	436*	-205.94%	
10	Kitchen Tap	308	143	43	145	18	333	6	437	98.05%	
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM		
Date Tested		1/10/2019	1/10/2019	1/10/2019	1/10/2019	15/10/2019	15/10/2019	31/10/2019	31/10/2019	See Notes	
Note	1	Test #435 (30 Days) - Visible presence of 'Halloween product' on taps / basins.					0 - 30	Considered Food Safe			
Note	2						31 - 100	Considered clean			
Note	3	Test #436 (30 Day Test) - conducted during lunch prep time / fridge being used often. Visible presence (flour?) Rest of area - V.Good.					101 - 200	Caution!			
Note	4						201 - 500	Contaminated			
Note	5						501 - 1000	High Risk of Infection			
Note	6						1000 +	Extreme Risk of Infection			

# Moonee Ponds Kinder Haven – Moonee Ponds

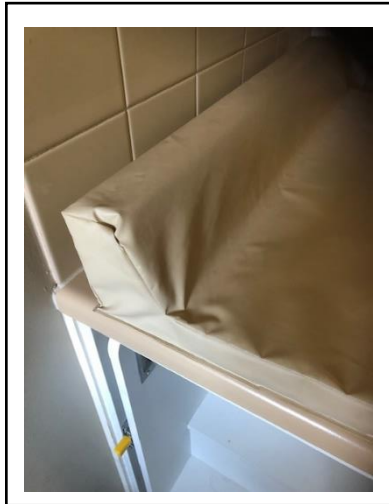
Location 1.



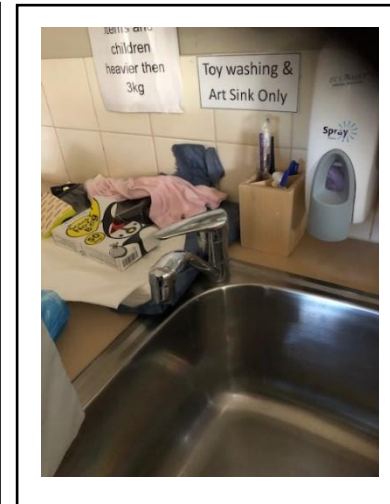
Location 2



Location 3



Location 4



Location 5



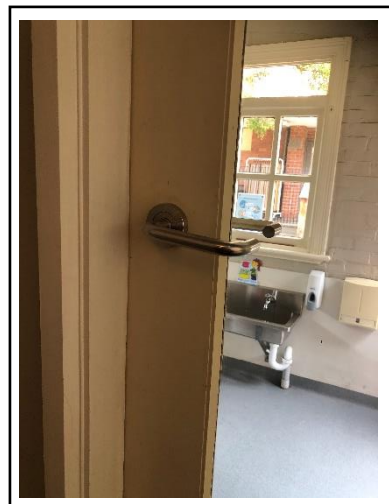
Location 6



Location 7



Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>GREAT BEGINNINGS</b>
Site Address	166 Albert Ave, Boronia VIC 3155
Contact:	Karrina Wust
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION	
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days	
1	Nursery 1 Sink Tap	102	166	2	168	8	304	0	414	100.00%	
2	Nursery 1 Haier Dryer Touch Panel	1	167	0	169	2	305*	1	415	0.00%	
3	Nursery 2 Sink Tap (Basin)	520	170	3	172	2	306	17	416	96.73%	
4	Nursery 2 Phone Receiver	372	171	5	173	11	307	14	417	96.24%	
5	Toddler 1 Toilet Flush Button	649	174	7	176	198	308	154	418	76.27%	
6	Toddler 1 Basin Tap	1263	175	21	177	46	309	141	419	88.84%	
7	Toddler 2 Exit Door (Inside) handle	817	178	5	179	83	310	551	420*	32.56%	
8	Kinda Toilet Flush Button - Centre	176	180	2	181	84	311	3	421	98.30%	
9	Kitchen Microwave Buttons	154	182	5	184	8	312	19	422	87.66%	
10	Kitchen Fridge Handle (RHS / Half way)	1301	183	42	185	264	313	8	423	99.39%	
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM		
Date Tested		30/09/2019	30/09/2019	30/09/2019	30/09/2019	14/10/2019	14/10/2019	31/10/2019	31/10/2019	SEE NOTES	
Note	1	Test #305: Despite the ATP increase (from 1 to 2) this is an outstanding result still within Food Safe parameters.					0 - 30	Considered Food Safe			
Note	2	Test #420: Door was being kept open due to heat - test in this area possibly compromised.					31 - 100	Considered clean			
Note	3						101 - 200	Caution!			
Note	4						201 - 500	Contaminated			
Note	5						501 - 1000	High Risk of Infection			
Note	6						1000 +	Extreme Risk of Infection			

# Great Beginnings - Boronia

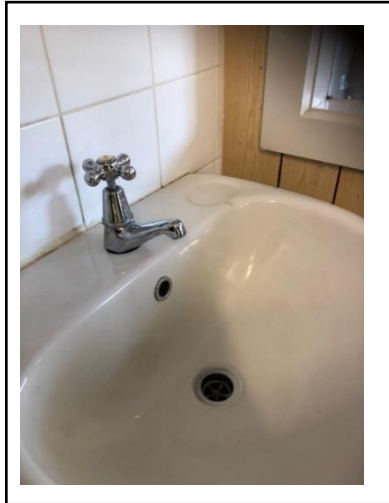
Location 1.



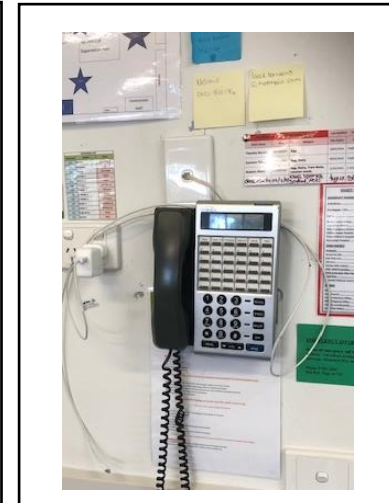
Location 2



Location 3



Location 4



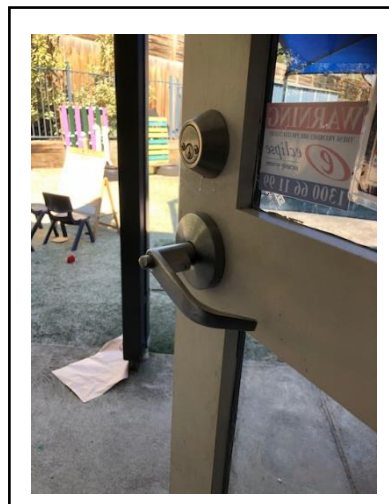
Location 5



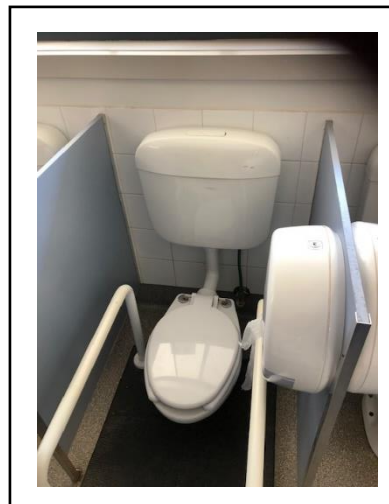
Location 6



Location 7



Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>HEADSTART EARLY LEARNING</b>
Site Address	Cnr Parkhill & Avebury Drives
	Berwick
	VIC 3806
Contact:	Jennifer Veitch
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days
1	Sign In iPad at Reception (LHS)	548	186	47	187	13	344	7	454	98.72%
2	Bilby Nappy Change RHS Toilet	244	188	9	190	61	346	0	455	100.00%
3	Bilby LHS Basin Tap	195	189	4	191	4	347	16	456	91.79%
4	Possum Room Phone Receiver	111	192	7	193	13	348	0	457	100.00%
5	Possum Room Basin Tap	485	194	6	195	6	349	2	458	99.59%
6	Platypus Bench Tap	549	196	6	198	13	350	5	459	99.09%
7	Platypus Outside Door Handle (Inside)	280	197	18	199	275	351	6	460	97.86%
8	Dingo Light Switch by Storage	61	200	4	201	8	352	9	461	85.25%
9	Kitchen Microwave	296	203	21	205	6	353	6	462	97.97%
10	Kitchen LHS Chiller Door Handle (Centre area)	8536	202	41	204	292	354	99	462	98.84%
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	
Date Tested		2/10/2019	2/10/2019	2/10/2019	2/10/2019	15/10/2019	15/10/2019	31/10/2019	31/10/2019	

Note	1		0 - 30	Considered Food Safe
Note	2		31 - 100	Considered clean
Note	3		101 - 200	Caution!
Note	4		201 - 500	Contaminated
Note	5		501 - 1000	High Risk of Infection
Note	6		1000 +	Extreme Risk of Infection



# Headstart Early Learning - Berwick

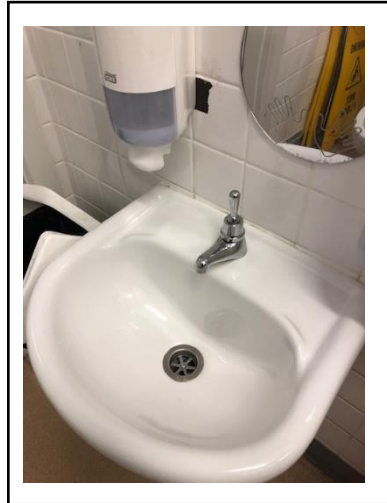
Location 1.



Location 2



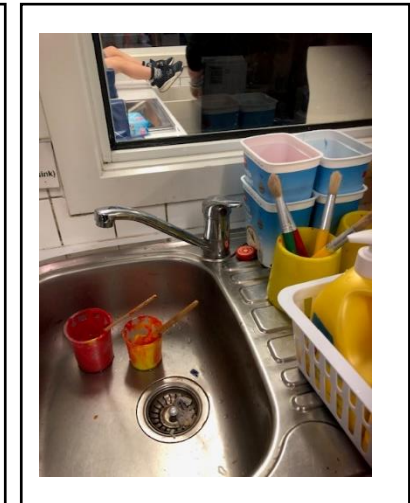
Location 3



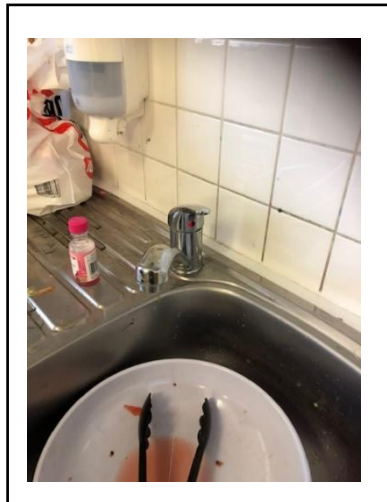
Location 4



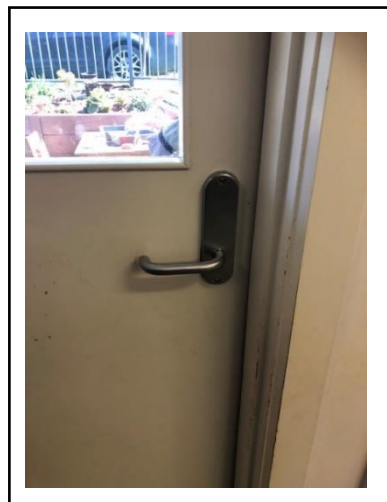
Location 5



Location 6



Location 7



Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>CREATIVE GARDEN EARLY LEARNING</b>
Site Address	7 Village Way
	Pakenham
	VIC 3810
Contact:	Belinda Farley
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

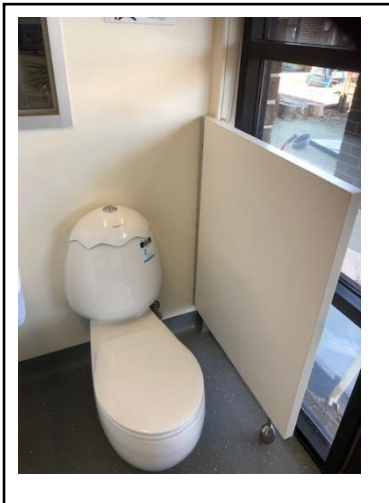
31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



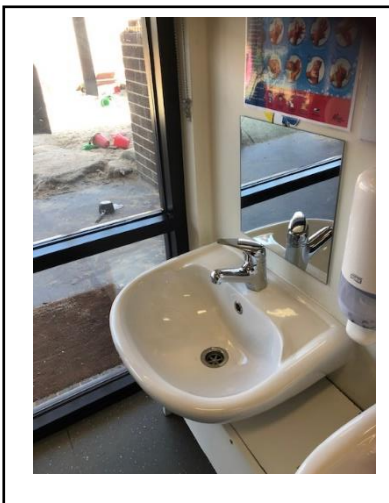
No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION	
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days	
1	Pre Kinder 1 RHS Toilet Flush Buttons	141	206	1	208	196	357	18	464	87.23%	
2	Pre Kinder 1 LHS Basin Tap	190	207	3	209	30	358	42	465	77.89%	
3	Toddler 2 Change Room Basin Tap	354	210	1	212	1	359	5	466	98.59%	
4	Toddler 2 External Door Inside Handle	831	211	6	213	38	360	11	467	98.68%	
5	Reception Sign In Touch Screen (LHS)	245	214	6	216	17	363	10	468	95.92%	
6	Reception Exit Door Inside Handle	1292	215	22	217	901	364 *	61	469	95.28%	
7	Nursery 1 - Tap Handle	1793	220	5	222	123	365	8	470	99.55%	
8	Nursery 1 - Tork Dispenser Actuator	123	221	4	223	12	367	11	471	91.06%	
9	Kitchen Microwave Buttons	741	224	8	226	87	361	20	472	97.30%	
10	Kitchen Fridge F2 Handle (Half Way)	577	225	3	227	31	362	11	473	98.09%	
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM		
Date Tested		2/10/2019	2/10/2019	2/10/2019	2/10/2019	15/10/2019	15/10/2019	31/10/2019	31/10/2019	SEE NOTES	
Note	1	#364 - The brushed stainless finish on the handle has worn - this may affect ATP tests.					0 - 30	Considered Food Safe			
Note	2						31 - 100	Considered clean			
Note	3						101 - 200	Caution!			
Note	4						201 - 500	Contaminated			
Note	5						501 - 1000	High Risk of Infection			
Note	6						1000 +	Extreme Risk of Infection			

# Creative Garden Early Learning – Pakenham

Location 1.



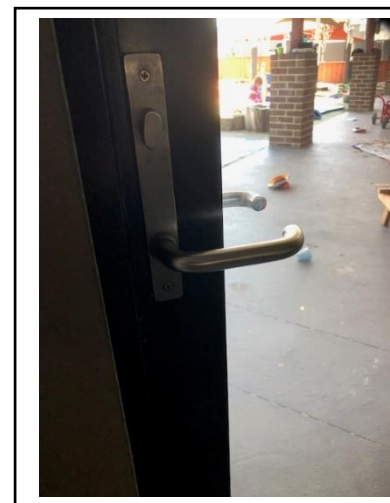
Location 2



Location 3



Location 4



Location 5



Location 6



Location 7



Location 8



Location 9



Location 10



# Zoono ATP Testing

Customer	<b>PELICAN CHILD CARE</b>
Site Address	682 Nepean Highway
	Mount Martha
	VIC 3934
Contact:	Gemma Pearson
Phone / eMail	C/- Scott Annett, WINC

## Zoono Group Limited

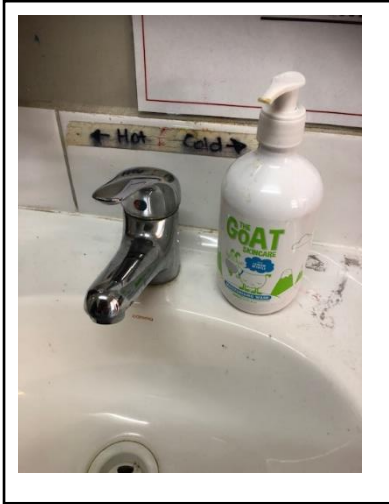
31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Location where ATP readings were completed	DAY ONE / INITIAL TESTS				DAY 15		DAY 30		REDUCTION	
		Initial Test	ATP Test Number	After 10 Minutes	ATP Test Number	After 15 Days	ATP Test Number	After 30 Days	ATP Test Number	% Reduction After 30 Days	
1	Nursery Basin Tap	204	228	4	230	52	368	3	476	98.53%	
2	Nursery Tork Dispenser by Basin	170	229	1	231	18	369	3	477	98.24%	
3	Nursery Microwave Buttons	1432	232	12	234	13	370	14	474	99.02%	
4	Nursery Kitchen Door Handle (By Microwave)	819	233	40	235	142	371	79	475	90.35%	
5	Kitchen Microwave	81	236	4	238	106	372 *	42	478	48.15%	
6	Kitchen Fridge (LHS) Mid Handle	1884	237	47	239	114	373	167	479	91.14%	
7	Laundry Washing Machine Control Dial	1	240	1	242	1	374	16	480 *	-1500.00%	
8	Laundry Freezer Handle (Middle)	521	241	4	243	11	375	81	481	84.45%	
9	Reception Sign In iPad (LHS)	905	244	2	246	18	376	6	482	99.34%	
10	Main Entrance Door Handle (Inside)	859	245	9	247	152	377	276	483	67.87%	
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM	LM / PM		
Date Tested		2/10/2019	2/10/2019	2/10/2019	2/10/2019	16/10/2019	16/10/2019	1/11/2019	1/11/2019	SEE NOTES	
Note	1	#372 - Kitchen Microwave had evidence of recent use (and debris was visible that did not come off with a paper towel)					0 - 30	Considered Food Safe			
Note	2	#480 - Laundry Machine was in use. The ATP test confirmed the surface was better than Food Safe after 30 Days!					31 - 100	Considered clean			
Note	3						101 - 200	Caution!			
Note	4						201 - 500	Contaminated			
Note	5						501 - 1000	High Risk of Infection			
Note	6						1000 +	Extreme Risk of Infection			

# Pelican Childcare – Mt Martha

Location 1.



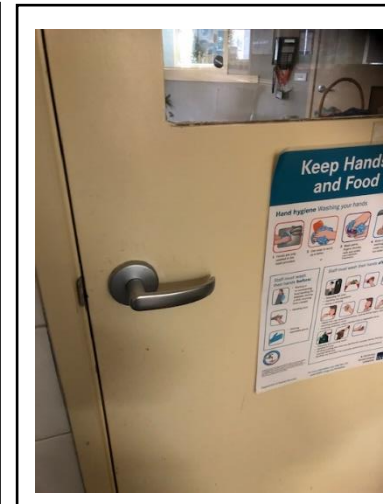
Location 2



Location 3



Location 4



Location 5



Location 6



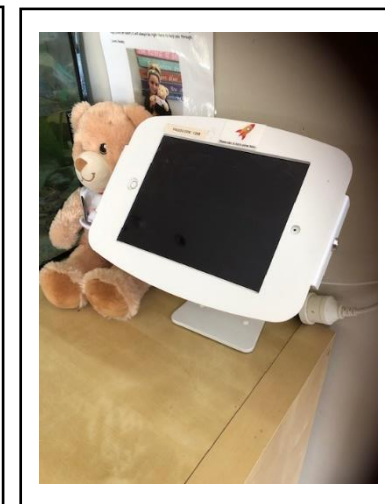
Location 7



Location 8



Location 9



Location 10



# SUMMARY OF ATP TESTING - G8 EDUCATION, MELBOURNE

Customer	<b>G8 EDUCATION LTD</b>
Site Address	Melbourne Sites - Trial of Zoono Brands

## Zoono Group Limited

31 Hannigan Drive  
St Johns  
Auckland 1072  
**NEW ZEALAND**



No.	Locations where ATP readings were completed	DAY ONE / AVERAGE ATP TESTS		DAY 15 AVERAGE ATP TESTS	DAY 30 AVERAGE ATP TESTS	OVERALL AVERAGE REDUCTION
		Average Initial Test	Average After 10 Mins	Average After 15 Days	Average After 30 Days	Reduction After 30 Days
1	CRAIGIEBURN	412	19	86	60	85.44%
2	WALLEN	897	24	62	41	95.43%
3	MOOROOLBARK	252	13	60	24	90.48%
4	PARK ORCHARDS	405	13	64	49	87.90%
5	SPOTSWOOD	450	15	62	20	95.56%
6	MOONEE PONDS	250	15	37	160	36.00%
7	BORONIA	535	9	70	90	83.18%
8	BERWICK	1130	16	69	15	98.67%
9	PAKENHAM	628	6	143	20	96.82%
10	MT MARTHA	687	12	63	69	89.96%
Tester - Initials		LM / PM	LM / PM	LM / PM	LM / PM	
Date Tested		2/10/2019	2/10/2019	16/10/2019	1/11/2019	SEE NOTES

Note	1	Moonee Ponds Average for 30 days was impacted by one ATP reading taken 31 October - see Centre Summary Sheet	0 - 30	Considered Food Safe
Note	2		31 - 100	Considered clean
Note	3		101 - 200	Caution!
Note	4		201 - 500	Contaminated
Note	5		501 - 1000	High Risk of Infection
Note	6		1000 +	Extreme Risk of Infection