

Ce 7835

SANDSPIT MOTOR CAMP

BRIAN & VANESSA MORRISON

1334 SANDSPIT ROAD

R.D.2

WARKWORTH

Phone 09 4258610

Auckland Regional Council
Private Bag 92012
AUCKLAND

Attn Ross Wickerbush

FILE NO.	116833
UNIQUE No.	RECEIVED
21 DEC 1998	
Auckland Regional Council	
ATTENTION:	
FORMATION:	

Dear Ross

Please find enclosed copies of discharge water tests taken 2/12/98 and 7/12/98.

The raw effluent outlet from the wet-well was changed from tank no. 3 to tank no. 1 on 2/12/98 after the first sample was taken. As you can see, there was a dramatic improvement in the test results in the space of only 5 days. The liquids in the aeration towers is now much clearer and when I took the second sample, it was obvious that the tests were going to be far better, — there was no sediment visible in the sample bottles whereas previously I would never be able to obtain a clear sample.

In hindsight the solution to the problem was so obvious, — for 30 years the plant has been operating backwards!! or rather, in parallel instead of in series.

I am finding also that the water is now flowing through the U.V. lamp at a slower, more even rate than before. Previously I would have to start the wet-well pump to commence the water flow ~~so~~ so that I could get a sample from the trap at the end of the U.V. lamp and the liquid would gush out, (a large proportion of it virtually directly from the wet-well obviously.) Now it flows through at the

rate of a slow tap as it is slowly feeding through the four tanks. This alone must help the U.V. lamp to do its job.

It is such a relief to know that the plant is now operating satisfactorily after all this time. Although coliform levels are not yet down to the levels required for discharge into the estuary, we are obviously on the right track.

As regards application for a renewal of discharge permit, I have received the application forms forward to me via Rachael Burke.

I would like to apply to discharge onto land via the drip-feed system as detailed in the engineers report. I am happy to feed the dripline into waste or bush area during the winter when not required for irrigation as water discharge is low during that period anyway. Discharge to the mangroves ~~is still~~ would only occur in the case of pump breakdown or switch malfunction.

are you happy for the application to be for land disposal only?

Would the quality requirements be at the same levels?

Would the tests need to be done at the same frequency?

Would treatment need to be the same as for now eg. U.V. lamp / no U.V. lamp?

I would appreciate a phone call or letter re these questions before filling in the application so that I do it right first time. Thanks.

Regards. Brian Morrison

P.S. Is the application Notified or Non-notified?

Page: 1
Distribution List
COPY TO 1: BRIAN MORRISON
2: FILE/115

Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331
1334 SANDSPIT RD
RD2 WARKWORTH
ATTENTION: BRIAN MORRISON

Batch Number: 98/12020
Received.....: 02/12/98 16:43

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	02/12/98	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (CBOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No.	01
BOD	110.0
Enter-mE	14000
MPN-faec	300000
MPN-Pres	>1600000
SS	236.

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Methodology: 18th-1992, 19th-1995 editions APHA AWWA unless specified.

Section Head: J. Fitzgerald Date: 14/12/98

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Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2562 822

Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 98/12186

SAMPLING/NO

Received.....: 07/12/98 11:00

Sample No	Date	Description	Testcode	Identification	Units
01	07/12/98	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (CBOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No.	01
BOD	21.0
Enter-mE	2300
MPN-faec	500
MPN-Pres	5000
SS	29.5

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

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Section Head: J. Fitzgibbon Date: 17/12/98

----- END OF REPORT : 1 PAGE -----

15 October 1998

Mr. B Morrison
Sandspit Motor Camp
1334 Sandspit Road
R.D. 2
WARKWORTH

File Ref:

Ce/7835

Dear Sir

Re: Self Monitoring Results - Sandspit Motor Camp

Thank you for your note of 7 October 1998, enclosing the latest analytical results of samples collected from your on site waste-water treatment facility. As you are aware, your resource consent specifies maximum limits for a number of constituents of the discharge from the plant. These test results show that all of these limits are being exceeded. Of particular concern are the *Enterococci* results - the limit imposed by the consent is 35/100 ml of discharge; the sample result is 2000. This result, coupled with that of the Faecal coliforms, (maximum permitted 200/100 ml; test result 3000/100 ml) indicates that the UV sterilising unit is not having the desired effect on the discharge.

Attached for your information is a copy of a table of results for all samples collected from your site, since you took over the running of the plant in 1995. This table clearly shows that the plant is consistently not achieving the standard required by your resource consent. However, there have been occasions when the standards for individual constituents have been met. This indicates that the plant is capable of achieving the desired outcome, but for some reason is not. We remind you that this consent is due to expire on 31st December 1999. In its current state, it is extremely unlikely that this permit would be renewed.

Because of the ongoing problems with this plant, we request that you engage a qualified engineer, experienced in wastewater treatment facilities, to examine your facility, and report on the causes of the ongoing problems, and ways to remedy these. A copy of this report, and

any planned remedial action, is to be forwarded to the undersigned by Friday 13th November, 1998.

We appreciate that you are having problems with the plant. However, the current situation of discharging effluent of this nature into the local estuary cannot continue. We remind you that the discharge of contaminants to the environment in a manner that is not in compliance with a resource consent constitutes an offence under the Resource Management Act 1991. Penalties for breach of this act range up to a maximum of two years imprisonment or a fine of up to \$200,000, with a further \$10,000 for each day the discharge continues.

Auckland Regional Council is a ratepayer funded organisation. For this reason, it is our policy to recover costs incurred while dealing with non-compliance with a resource consent from the consent holder. These costs may include officer's time, travel and analytical fees. An invoice will follow upon resolution of the above matters.

If you have any queries regarding this matter please contact the undersigned on phone 09 366 2000 ext. 8458.

Yours faithfully



Ross Winterburn

Senior Resource Quality Officer

c.c. Mr K Paisey
Environmental Health Officer
Rodney District Council
Private Bag 500
OREWA

Sandspit Motor Camp - Monitoring Results					
(Ce / 7835)					
Date	Sampled By *	B.O.D. mg/l (Max. = 20)	N.F.R. mg/l (Max. = 30)	Faecal Coliforms mpn/100 ml (Max. = 200)	Enterococci cfu/100 ml (Max. = 35)
11.05.95	ARC	< 5.0	3	70 000	N/S
28.03.96	ARC	20.0	47	710 000	6 600
1.10.96	ARC	6.9	43	240 000	1 200
24.01.97	SMC	14.0	59	240 000	3 200
07.03.97	SMC	19.0	86	800	1 600
09.09.97	SMC	4.2	17	28 000	2 600
09.10.97	SMC	10.0	64	<23	9
05.01.98	SMC	110.0	64	1 600 000	390 000
06.01.98	ARC	75.0	28	70 000	340 000
12.06.98	SMC	19.0	180	3 000	7 200
24.09.98	SMC	46.0	48	3 000	2 000
* ARC = Auckland Regional Council					
* SMC = Sandspit Motor Camp					
Total No. Samples		11	11	11	10
No. non-complying		8	9	10	9
% Non-complying		82	82	91	90

Received 9/10/98
R. White

Page: 1
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Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331
1334 SANDSPIT RD
RD2 WARKWORTH
ATTENTION: BRIAN MORRISON

Batch Number: 98/09188
Received.....: 24/09/98 11:24

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	24/09/98	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No.	01	Consent:
BOD	46.0	Max 20
Enter-mE	2000	Max 35
MPN-faec	3000	Max 200
MPN-Pres	30000	
SS	48.	Max 30

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Section Head: J. Fitzgerald Date: 29/9/98

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01 JUL 1998

Auckland **Regional** Council

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Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331
1334 SANDSPIT RD
RD2 WARKWORTH
ATTENTION: BRIAN MORRISON

Batch Number: 98/05430
Received.....: 12/06/98 13:57

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	12/06/98	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No. 01

BOD	19.0		✓
Enter-mE	7200	←	135
MPN-faec	3000	←	1200
MPN-Pres	80000		
SS	180.	←	130

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Section Head:

[Signature]

Date:

26/6/98

----- END OF REPORT : 1 PAGE -----

29/7/98.

Now - Did you get the February results?
Need explanation for high results - They are going to have
to get an Engineer in - this keeps happening! Esp before
the summer. Please write to them asap.
Thanks
Hatt

FILE NO:	
UNIQUE NO:	00176
RECEIVED	
28 JAN 1998	
Auckland Regional Council	
ATTENTION:	
INFORMATION:	
ACTIONED: 012	

Auckland Regional Council
Private Bag
AUCKLAND.

Sandspit Motor Camp.
1334 Sandspit Road.
R.D. 2 WARKWORTH
Jan 23 1998.

Attn. Ross Winterburn.

Dear Ross,

Enclosed are test results taken 5 Jan 1998 (just before you took your sample).

I am at a loss to explain the high readings as everything was functioning and the U.V. light on as I took the sample. The only explanation could be that when I undid the sampling trap there was a syphoning action from the holding tank so that the sample could have been from the overflow pipe which would have been sitting in the sun incubating bacteria and not from the U.V. end as the water was flowing through.

I have shortened the end of this pipe and angled it down wards so that this would not be able to happen again.

I hope for a better result from the Feb. test.

It would be good to compare your sample results when you get them.

Do you take your sample from the u.v. unit or the mangroves?

Regards
Brian Horrocks

Page: 1

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Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2562 822

Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 98/00064

SAMPLING/NO

Received.....: 05/01/98 11:08

Sample No	Date	Description	Testcode	Identification	Units
01	05/01/98	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No. 01

BOD 110.0

Enter-mE 390000

MPN-faec 1600000

MPN-Pres >1600000

SS 64.

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

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Section Head: J. Fitzgerald Date: 16/1/98

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FILE $\Rightarrow$ 7835

SANDSPIT MOTOR CAMP

BRIAN & VANESSA MORRISON
1334 SANDSPIT ROAD
R.D.2
WARKWORTH
Phone 09 4258610

Rec'd

10/3/78

RW
/

Dear Ross,

- Enclosed Feb, discharge tests. B.O.D + SS. good, Faecal coliforms + Enteric high?

- We are now pumping 60 cub/d. as against 40 cub with the old pump. Water is much clearer
- and no smell whatsoever
- Everything was functioning well, tube clean + light on.

Regards

Brian.

Page: 1
Distribution List
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Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331
1334 SANDSPIT RD
RD2 WARKWORTH
ATTENTION: BRIAN MORRISON

Batch Number: 98/01636
Received.....: 19/02/98 12:39

SAMPLING/NO

Sample No	Date	Description	Testcode Identification	Units
01	19/02/98	SANDSPIT MOTOR CAMP DISCHARGE	BOD Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE Enterococci	/100ml
			MPN-faec Faecal coliforms by MPN	/100ml
			MPN-Pres Presumptive coliforms by MPN	/100ml
			SS Suspended solids	mg/L

Sample No. 01

BOD 10.0
Enter-mE 3500
MPN-faec 17000
MPN-Pres 30000
SS 23.

Max 200 FC.

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Section Head: J. Fitzgerald Date: 4/3/98

----- END OF REPORT : 1 PAGE -----

FILE

20 January, 1998

Mr. B Morrison
Sandspit Motor Camp
1334 Sandspit Road
R.D.2
WARKWORTH

File Ref:

Ce/7835

Dear Sir

**COMPLIANCE MONITORING SITE INSPECTION - DISCHARGE PERMIT
Ce/7835 - SANDSPIT MOTOR CAMP**

Thank you for your telephone call of yesterday morning, advising of elevated bacterial counts in your most recent self-monitoring sample. As you are aware, I visited your site on the 6th January last, and sampled the discharge from your plant also. Analytical results of my samples are now to hand; a copy is attached for your information.

As can be seen from the results, the discharge was of a poor quality at the time of my visit. Of particular concern are the bacterial results - these are particularly high, especially considering that a new bank of U/V tubes were installed recently. It is possible that bio-fouling of the protective tube surrounding the U/V light has occurred - this would reduce the amount of light being emitted into the effluent stream.

Another possible cause of high bacteria is elevated suspended solids levels in the effluent stream - however, my sample shows an acceptable level on this occasion. This factor increases the possibility that either bio-fouling, or a faulty U/V tube, is the problem.

BOD results are also high - however, you reported that the compressor pump had failed, and was off site being repaired at the time of my visit. Lack of air being introduced to the system would account for this elevated result.

To ensure that the problems have been rectified, would you please arrange for another sample to be collected, as soon as the mechanical problems have been rectified. A copy of the analytical results should be forwarded to us as soon as you receive them.

As previously notified, the cost of staff time and travel associated with my visit is included in your annual fee, whilst specific analytical charges are separate. Therefore, we enclose our invoice for the cost of our analyses.

If you have any queries regarding this matter, please contact me on 366 2000 ext. 8458 .

Yours faithfully

A handwritten signature in black ink, appearing to read 'Ross Winterburn', written in a cursive style.

Ross Winterburn
Senior Resource Quality Officer

cc

RESOURCE QUALITY SECTION, AUCKLAND REGIONAL COUNCIL

FIELD SHEET

SURVEY OR LOCATION IDENTIFIER: SANDSPIT Motae Camp		
DATE: 6-1-98	SAMPLED BY: R Winterburn	ORDER No: H111096 CONSENT No: 67835

FIELD OBSERVATIONS		WEATHER RECENTLY	Last 24 hours	Last 7 days			
SAMPLE/SITE DESCRIPTION	Effluent Tank.						
BOTTLE/SAMPLE No.	RQ665						
TIME	13:45						
WEATHER	Appearance: b						
(Beaufort scale)	Precipitation: NIL						
WIND	Speed: 1						
(Beaufort scale)	Direction: SW						
W. HEIGHT (m)	/						
GAUGE HEIGHT (m)	/						
FLOW (estimated/measured)	~2 l/min						
SAMPLE DEPTH	Surface						
COLOUR	Lt Gray						
CLARITY	Opal						
ODOUR	Musty						
TEMPERATURE (°C)	- Air						
	- Water 23.5						
pH (Paper/meter)	/						
D.O. (ppm)	/						
SALINITY (‰)	/						
CONDUCTIVITY ()	/						
SECCHI DEPTH (m)	/						
BLACK DISC (m)	/						

NOTES:

SAMPLING DIAGRAM/SITE PLAN

From: Resource Quality Section, Auckland Regional Council

**Copy To: Secretary, Resource Quality Section,
Auckland Regional Council.**

[illegible]

Rw

Page: 1

Distribution List

COPY TO 1: Susan Winter E&P Reception

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Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2562 822

Facsimile: (09) 2751 550

ARC Environment 0478

PO Box 68912

Newton

Auckland

Batch Number: 98/00152

Compliance Monitoring

SAMPLING/NO

Received....: 06/01/98 16:48

Sample No	Date	Description	Testcode	Identification	Units
01	06/01/98	SANDSPIT MOTOR CAMP RQ665 EFF	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No. 01

BOD 75.0

Enter-mE 340000

MPN-faec 70000

MPN-Pres 500000

SS 28.

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

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Section Head: J. Fitzgerald Date: 16/1/98

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FAXED

File → Ce/7835.

SANDSPIT MOTOR CAMP.
1334 SANDSPIT ROAD.
R.D. 2.
WARKWORTH.
PH/FX 094258610

AUCKLAND REGIONAL COUNCIL
Private Bag. 92012
AUCKLAND.

FILE No:	
UNIQUE No:	81281
RECEIVED	
28 OCT 1997	
Auckland Regional Council	
ATTENTION:	
INFORMATION:	
ACTION:	

Attn Ross Winterburn.

Dear Ross

Please find enclosed Watercare test results dated 20/10/97. being a repeat sample as requested. I have installed a sampling valve near the U.V. outlet as suggested and this sample was taken from there. The new U.V. unit is obviously doing its job.

If you recall, it was you who showed me to take the sample from the swamp when we first bought the camp, so that is how I have been taking samples ever since. It is much easier and cleaner to take the samples with a valve, and as you point out, will ensure a more representative sample.

Now that we have a new U.V. unit, the coliform count at the swamp should improve ~~itself~~ itself in time.

Yours faithfully.

Brian Morrison

SANDSPIT MOTOR CAMP.

Page: 1

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Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2562 822

Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 97/08554

SAMPLING/NO

Received.....: 09/10/97 12:42

Sample No	Date	Description	Testcode	Identification	Units
01	09/10/97	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/L

Sample No. 01

BOD 10.0

Enter-mE 9

MPN-faec <20

MPN-Pres 130

SS 64.

✓ Vast improvement.
AOK.
R. McIntosh

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

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Methodology: 18th-1992, 19th-1995 editions APHA AWWA unless specified.

Section Head: J. Fitzgerald Date: 20/10/97

----- END OF REPORT : 1 PAGE -----

FILE

29 September 1997

Mr B Morrison
Sandspit Motor Camp
1334 Sandspit Road
RD 2
WARKWORTH

File Ref: Ce/7835

Dear Sir

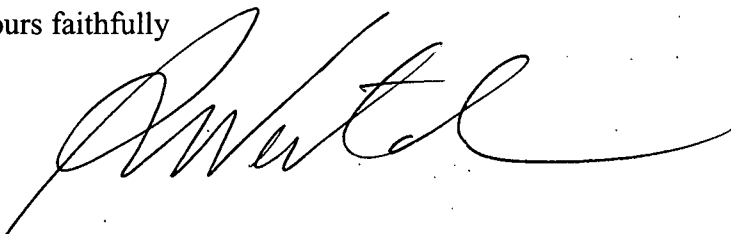
RE: Self Monitoring Results, August 1997.

Thank you for your letter of 17 September, enclosing the analytical results for your August compliance sample. As you are aware, the bacterial results are well outside the limits imposed by your permit. You advise that a new Ultra Violet (UV) unit has just been installed, so we are rather at a loss to explain this high result, especially in view of the low suspended solids result.

However, you also advise that "I assume the coliforms were built up in the water where I took the samples - maybe if I had taken the sample as it came from the pipe..." We remind you that all samples taken from your plant should be collected directly from the discharge pipe, preferably immediately downstream of the UV unit. If you do not already have a sampling valve installed on this line, we recommend that you have one installed as soon as practicable. In the interim, we request that you repeat the sample, to ensure that the system is operating effectively. We look forward to receiving this extra set of results.

Should you have any queries regarding this matter, please contact the undersigned at Ph 366 2000 ext 8458.

Yours faithfully



Ross Winterburn
Senior Resource Quality Officer

Ce/7835.

Rec'd by RW 29/9/97.

Ross,

We should get him to
send again now & submit
results asap. Also if you have the file
can you let me know as none of the previous
results have been entered on the computer.

Auckland Regional Council
Private Bag 92012
AUCKLAND.

SANDSPIT MOTOR CAMP.

1334 Sandspit Rd.

R.D. 2

Warkworth

Ph/fax 094258610

Thanks
Katy.

FILE No:	
UNIQUE No:	7835
RECEIVED	
19 SEP 1997	
Auckland Regional Council	
ATTENTION:	
INFORMATION:	
ACTIONED:	

Attn. Ross Winterburn.

Dear Ross.

Enclosed is a copy of the camp discharge
test results for Aug.

Note the B.O.D and S.S readings are
much improved but Faecal + enterococci counts
are disappointing.

We have had a further burn-out of the ultra-
violet unit and I have now replaced it with
a brand-new unit from 'Contamination control'.
It was installed only 3 days before taking the
test samples so I assume the coliforms were
built up in the water where I took the samples.
Maybe if I had taken the sample as it
came from the pipe it would have shown
a lower figure. I hope the next test is
more satisfactory.

Yours faithfully,

Brian Morris

Encl. test result - Aug 1997.

Page: 1
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Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331
1334 SANDSPIT RD
RD2 WARKWORTH
ATTENTION: BRIAN MORRISON

Batch Number: 97/07524
Received.....: 09/09/97 13:36

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	09/09/97	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/l

Sample No.	01
BOD	4.2
Enter-mE	2600
MPN-faec	28000
MPN-Pres	170000
SS	17.

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
This report may not be reproduced except in full.
Methodology: 18th-1992, 19th-1995 editions APHA AWWA unless specified.

Section Head: J. Fitzgerald Date: 15/9/97

----- END OF REPORT : 1 PAGE -----

File
Based



Auckland **Regional** Council

BellSouth Centre
21 Pitt Street
Private Bag 92 012
Auckland
New Zealand

DX CP 28 008 Pitt St
tel 64 9 379 4420
fax 64 9 366 2155

15 July 1997

Mr B Morrison
Sandspit Motor Camp
1334 Sandspit Road
RD 2
WARKWORTH

File Ref: Ce/7835

Dear Sir

Re: Self Monitoring Results - Sandspit Motor Camp

Thank you for your recent letter, received by us today. We understand you have been having problems with the Ultra Violet (UV) sterilisation system, which would partly explain the elevated bacteriological results reported. However, the elevated suspended solids would also be affecting the bacterial result, as the suspended matter will be absorbing and blocking the UV rays. Therefore, you should be looking at ways to reduce the suspended particulate load in the final effluent.

If you have not already done so, we recommend you engage an engineer experienced in operating waste-water treatment plants to regularly inspect your system, to ensure it's ongoing good performance.

With reference to 'Watercare' not supplying us with copies of your results, I suggest you fax a request to do so to Mr Peter Raines at the Watercare Services Laboratory, Mangere, at Fax (09) 275 1550. He will then ensure that all future sample results for your site are forwarded to us.

We appreciate that you have been having problems ^{with} the plant. However, we remind you that the sampling requirement is a condition of your consent, and must be adhered to. In cases like this, examination of the results can detect minor problems before they become major problems. Therefore, we must request that you keep to the sampling schedule specified in your consent, as it may save you time and money in the long term.

Should you have any queries regarding this matter, please contact the undersigned at phone (09) 366 2000 ext 8458. We look forward to receiving your next set of sample results, due by the end of August.

Yours faithfully

Ross Winterburn
Resource Quality Officer

See Ross
a typo
1/11/97
Corrected, new
good copy printed
& sent.
RW.

Ce 7835

SANDSPIT MOTOR CAMP
1334 SANDSPIT ROAD.
R.D. 2
WARKWORTH.
Ph/Fax 09 425 8610

Auckland Regional Council
Private Bag 92012.
AUCKLAND.

ATTN. Ross Winterburn.

FILE NO:	
UNIQUE NO:	72585
RECEIVED	
 15 JUL 1997	
Auckland Regional Council	
ATTENTION:	
INFORMATION:	
ACTIONED:	

Dear Ross, Re your letter 27 June regarding discharge permit and sampling requirements.

We have been sending samples for testing although not as regularly as required. I'm sorry.

I had instructed WaterCare services to forward a copy to you and assumed that they were doing so. I was, in fact, surprised that I had not heard from you as the last two tests (February and March) showed a very high level of Faecal coliforms.

● On receiving the copy of the February test we discovered that the bulb in the U.V. unit was not operating and replaced it. However the March sampling also had a high reading and it was discovered that the unit was faulty and although the warning lights were functioning, the bulb was still not working. Splash Equipment in Warkworth sent the unit away to be serviced and the problem rectified, ~~but~~ it has now been reinstalled and is operating satisfactorily. We are expecting an acceptable coliform-level result at the next testing. I enclose a photocopy of the last two tests and invoices from Splash Equipment to

Verify the problems we have been having with the unit. I did not take a sample in June as we knew that the problem had not been resolved. I hope they have fixed the problem with the unit as it is a very expensive exercise to keep replacing burnt-out bulbs.

In future I will forward you copies of the tests instead of relying on Water Care to do so.

Yours faithfully
Brian Morrison

ENCL.

Watercare test results Feb

Watercare test results March.

Invoices. — splash equipment.

Page: 1

Distribution List

COPY TO 1: BRIAN MORRISON

2: FILE/11S

Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2562 822

Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 97/00652

SAMPLING/NO

Received.....: 24/01/97 12:38

Sample No	Date	Description	Testcode	Identification	Units
01	24/01/97	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/l

Sample No.	01	Results:
BOD	14.0	< 20
Enter-mE	3200	< 35
MPN-faec	240000	< 200
MPN-Pres	500000	
SS	59.	< 30

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

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Section Head: J-Fitzgerald Date: 7/2/97

----- END OF REPORT : 1 PAGE -----

Page: 1

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Watercare Services Ltd

Laboratory Services Section

Wastewater Treatment Plant

Island Road

Mangere, Auckland, New Zealand

Phone: (09) 2562 822

Facsimile: (09) 2751 550

SANDSPIT MOTOR CAMP Q331

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 97/01958

SAMPLING/NO

Received.....: 07/03/97 13:16

Sample No	Date	Description	Testcode	Identification	Units
01	07/03/97	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/l

Sample No.	01	Req:
BOD	19.0	< 20
Enter-mE	1600	< 35
MPN-faec	800	< 200
MPN-Pres	23000	
SS	86.	< 30

Sampling/Yes:= As per Laboratory Services sampling manual.

Sampling/No := Results are reported on an as received basis.

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Methodology: 18th-1992, 19th-1995 editions APHA AWWA unless specified.

Section Head: J. Fitzgerald Date: 17/3/97

----- END OF REPORT : 1 PAGE -----

SPLASH EQUIPMENT (MN) LTD
18 BAXTER STREET
WARKWORTH
Phone : 09 425-9100

TAX INVOICE

Date : 02/05/97
GST No : 53-857-078
Account : 974
Invoice : 27531
Order # : J087041569
Int. Ref.:
Sales Rep:--

Charge to :
SANDSPIT MOTOR CAMP
RD 2
WARKORTH

Deliver to :
SANDSPIT MOTOR CAMP
RD 2
WARKORTH

4258610

4258610

Code	Description	Quantity	Rate	Total
2/4	Colin check power to lamp OK, so order new lamp			
18/4	Colin go to replace lamp - still not operating so retrieved power unit to have checked			
OUTWORK	UV 1500 power unit check & repair (Conta	1.00	65.00	65.00
FREIGHT		1.00	5.50	5.50
2/5	Colin re-install power unit & check OK			
LABOUR	3 visits 18/4, 22/4, 2/5	2.00	35.00	70.00
TRAVEL	3 visits	1.00	18.00	18.00

ALL GOODS REMAIN THE PROPERTY OF SPLASH
EQUIPMENT (MN) LTD UNTIL FULLY PAID

GST Exclusive : 158.50
GST : 19.81
Total : 178.31

SPLASH EQUIPMENT (MN) LTD
18 BAXTER STREET
WARKWORTH
Phone : 09 425-9100

TAX INVOICE

Date : 17/06/97
GST No : 53-857-078
Account : 974
Invoice : 27992
Order # :
Int. Ref. :

Sales Rep:

Charge to :
SANDSPIT MOTOR CAMP
RD 2
WARKORTH

Deliver to :
SANDSPIT MOTOR CAMP
RD 2
WARKORTH

4258610

4258610

Code	Description	Quantity	Rate	Total
ALK25-100	Alkathene 25mm x 100m	1.00	96.75	96.75
MISC	FILTRUV Lamp GPH1554N/S	1.00	189.00	189.00

TERMS OF CREDIT : THIS ACCOUNT IS DUE FOR
PAYMENT 20TH OF MONTH FOLLOWING INVOICE DATE.

ALL GOODS REMAIN THE PROPERTY OF SPLASH
EQUIPMENT (MN) LTD UNTIL FULLY PAID

GST Exclusive : 285.75
GST : 35.72
Total : 321.47



Auckland **Regional** Council

BellSouth Centre
21 Pitt Street
Private Bag 92 012
Auckland
New Zealand

27 June, 1997

FILE

DX CP 28 008 Pitt St
tel 64 9 379 4420
fax 64 9 366 2155

B & V Morrison
C/- Sandspit Motor camp
RD2
WARKWORTH

File Ref: Cg/7835

Dear Sir

**COMPLIANCE MONITORING SITE INSPECTION - DISCHARGE PERMIT
Ce/7835 - SANDSPIT MOTOR CAMP**

Auckland Regional Council has an on-going consent monitoring programme to check compliance with the conditions of wastewater discharge permits and to investigate the effects of these discharges on the environment.

This letter is to confirm that Regional Council staff inspected your site recently and the system appears to be performing satisfactorily. However, the following matters do require your attention:

- i. The main treatment tank should be inspected regularly, and accumulated solids drawn off as necessary to maintain effective treatment efficiency.

Please note that your resource consent has requirements for information to be submitted to Auckland Regional Council on a regular basis. Specifically, you are required to sample the final effluent from the treatment system once every month during the months of December, January, and February of each year, and once every three months during the remainder of the year (special condition 3). Copies of the analytical results are to be forwarded to us without delay (condition 6). Since the permit was transferred into your name in April 1995, we have not received any sample results. tabulated below is a listing of results missing; would you please advise us when, or if, we can expect to receive a copy of these.

Analytical results were due on the following times:

1995	March	1st	June	1st
	September	1st	December	1st
1996	January	1st	February	1st
	March	1st	June	1st
	September	1st	December	1st

1997

January
March

1st
1st /

February
June

1st /
1st ND.

The next sample is due to be collected in August - please ensure that this sample is collected on time, and results forwarded to us promptly.

Please contact the undersigned by Friday 18th July to advise when we may expect to receive the missing data. We remind you that this permit is due to expire within the next two years. Continued failure to comply with the conditions of your current consent will make it harder for you to have this consent renewed.

If you have any queries regarding this matter, please contact the undersigned on 366 2000 ext 8458.

Yours faithfully



Ross Winterburn
Resource Quality Officer

cc



COMPLIANCE MONITORING SITE SHEET

Auckland **Regional** Council

SITE NAME	<u>B + V Morrison - SANDSPIT MOTOR CAMP</u>		
CONSENT FILE NUMBER #	<u>C-17835</u>	*PC#	_____
POLLUTION FILE #	_____	*CT	_____
STAFF MEMBER	<u>R. N. INTERVIEW</u>	DATE	<u>11-6-97</u>
TIME OF VISIT	_____	TIME ON SITE	_____
CODE RC _____			
INFO RECEIVED:		Survey ☒	Other _____
REPORTED TO E.M.S _____			

TYPE OF SYSTEM

PACKAGE TMT PLANT → U/V filter → Estuary.

GENERAL OBSERVATIONS

Low occupancy at time of visit. No discharge from treatment plant. Plant in good order - under regular maintenance program.

SPECIFIC ACTIONS REQUIRED

1. Nil.
2. Special Condition 3 - sampling requirements.
3. _____
4. _____
5. _____

SAMPLES TAKEN:	YES/NO
PARAMETERS:	N/A
BATCH NUMBER:	N/A

DIAGRAM

NOTES

SUMMARY REPORT	
LETTER SENT	☐
SAMPLE RESULTS	☐
ABATEMENT NOTICE	☐
RESOLVED	☐
LEGAL	☐
REPLY	☐
PHOTOS	☐
FOLLOW UP VISIT REQUIRED	☐
OTHER	
COST RECOVERY \$	

ARC COMPLIANCE MONITORING
SELF MONITORING REPORT

Catchment: 130 Matakana

File Reference	Permit Code	Customer/Site Address	Summary Condition	Date Required
CE917835	7900	MORRISON B & V SANDSPIT KAWAU LANDING	DISCHARGE QUALITY SAMPLING REQUIRED Samples required once a month Dec, Jan, Feb and every three months for remainder of year BOD, SS, MPN, Enterococci	01-DEC-92 01-MAR-93 01-JUN-93 01-SEP-93 01-DEC-93 01-MAR-94 01-JUN-94 01-SEP-94 01-DEC-94 01-MAR-95 01-JUN-95 01-SEP-95 01-DEC-95 01-MAR-96 01-JUN-96 01-SEP-96 01-DEC-96 01-MAR-97 01-JUN-97 01-SEP-97

N.B.: RW spoke to P. Raries @ W/Care Lab.
PR advises that no sample received from
Sandspit m/c "recently", but "we have
done a few over summer".
RW

Previous Owner

GUARD



Auckland **Regional** Council

BellSouth Centre
21 Pitt Street
Private Bag 92 012
Auckland
New Zealand

I.S.Ref: I:\rq\ln9\lnqb.doc

FILE REF: W544-05

DX CP 28 008 Pitt St
tel 64 9 379 4420
fax 64 9 366 2155

29 January, 1997

File - Ce/7835.

Sandspit Motor Camp
P O Box 40
WARKWORTH

Attention J Evans

Dear Sir/Madam

RE: MONITORING INSPECTION CHARGES - DISCHARGE PERMITS

The Auckland Regional Council is undertaking monitoring visits for all the wastewater discharge permits it administers. The purpose of the visit is to check compliance with the conditions of discharge permits and/or to investigate the environmental effects of the discharge. For permits that discharge to natural water or where there is a greater risk of an adverse impact on the environment, sampling is undertaken as part of the compliance monitoring inspection. Your discharge permit Ce/7835 is part of this programme and is scheduled to be inspected and sampled during the next few months.

Your annual charge has covered the cost of staff time and travel associated with these visits. However, specific analytical charges are in addition to your annual fee as stated in the Council's Schedule of Administrative Charges 1996/7. Therefore, ARC will charge the analytical costs associated with this inspection which is estimated to be \$89.00 and an invoice for the actual costs will be forwarded in due course.

Please note that the analytical costs may vary if the site is found to be in breach of consent conditions.

If you require any further information with regard to this matter please contact the undersigned on phone 366 2000 ext 8176.

Yours faithfully

Kathy Duffett
Pollution Control Officer
Resource Quality

ENVIRONMENTAL MANAGEMENT DEPARTMENT FIELD SHEET

SURVEY OR LOCATION IDENTIFIER: <u>SANDSPIT MOTOR CAMP.</u>	DATE: <u>1-10-96</u>
SAMPLED BY: <u>P. Ross</u> <u>R. WINTERBURN</u>	Order No. <u>4111035</u> CONSENT No. _____

FIELD OBSERVATIONS		WEATHER RECENTLY	Last 24 hours _____	Last 7 days _____
SAMPLE/SITE DESCRIPTION	<u>Discharge</u>			
BOTTLE/SAMPLE No.	<u>WB134</u>			
TIME	<u>10:10.</u>			
WEATHER	Appearance: <u>bc</u>			
(Beaufort scale)	Precipitation: <u>NIL</u>			
WIND	Speed: <u>N</u>			
(Beaufort scale)	Direction: <u>3</u>			
WAVE HEIGHT (m)	<u>/</u>			
GAUGE HEIGHT (m)	<u>/</u>			
FLOW (estimated/measured)	<u>~ 5L min</u>			
SAMPLE DEPTH	<u>Surface</u>			
COLOUR	<u>Clear</u>			
CLARITY	<u>DR Green Flc.</u>			
ODOUR	<u>Earthy</u>			
TEMPERATURE (°C)	<u>-</u>			
pH (Paper/meter)	<u>-</u>			
D.O. (ppm)	<u>-</u>			
SALINITY (‰)	<u>-</u>			
CONDUCTIVITY ()	<u>-</u>			
SECCHI DEPTH (m)	<u>-</u>			

NOTES:

Sample taken from small pool area below outfall pipe.

May be slightly saline due to being in mangrove swamp area.

Some bottom sediments may have entered samples.

SAMPLING DIAGRAM/SITE PLAN

From Environmental Management Department

Sample Recieved: _____ Number of Bottles. _____

R. Azzara, Resource Quality Section.

BATCH NO.:

$$96 \overline{) 7221}$$

Sample No.	1					
Bottle No.	WB134					
Site No.						
Lab sample No.						

[illegible]

Page: 1

Distribution List

COPY TO 1: SUSAN WINTER E&P RECEPTION
2: FILE/13

Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

ARC Environment 0478
PO Box 68912
Newton
Auckland

Batch Number: 96/07221

ROU COMP/OXID POND/NZ STEEL SAMPLING/NO

Received.....: 01/10/96 16:10

Sample No	Date	Description	Testcode	Identification	Units
01	01/10/96	WB134 SANDSPIT MOTOR CAMP D/C	BOD	Biochemical oxygen demand (BOD5)	mg/L O
			Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids	mg/l

Sample No. 01

BOD 6.9
Enter-mE 1200
MPN-faec 240000
MPN-Pres 240000
SS 43.

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Section Head: J. Fitzgerald Date: 8/10/96

----- END OF REPORT : 1 PAGE -----

Page: 1
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COPY TO: SUSAN WINTER,E&P RECEPTION.

Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

ARC Environment 0478
PO Box 68912
Newton
Auckland

Batch Number: 96/02386 ROU COMP/OXID POND/NZ STEEL SAMPLING/NO
Received.....: 28/03/96 15:56

Sample No	Date	Description	Testcode Identification	Units
01	28/03/96	SANDSPIT MOTOR CAMP	BOD-sew Biochemical oxygen demand (CBOD5) Enter-mE Enterococci FCol-mFC Faecal coliforms SS-sew Suspended solids	mg/l Oxygen /100ml /100ml mg/l

Sample No. 01

BOD-sew 20.
Enter-mE 6600
FCol-mFC 710000
SS-sew 47

Sampling/Yes:= As per Scientific Services sampling manual.
Sampling/No := Results are reported on an as received basis.
This report may not be reproduced except in full.

Section Head: *John Patchery* Date: 21/4/96

----- END OF REPORT : 1 PAGE -----



FILE



ENVIRONMENT

I.S.Ref: I:\rq\april\q492sm74.doc

FILE REF: Ce 7835

2 April, 1996

B & V Morrison
C/- Sandspit Motor Camp
RD 2
WARKWORTH

Dear Sir

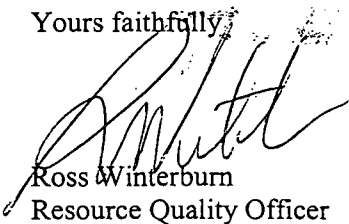
RE: COMPLIANCE MONITORING VISIT, DISCHARGE CONSENT Ce 7835

This letter is to confirm our visit to your premises on 28 March 1996, as part of our on-going consent compliance monitoring programme. As discussed with you on site, your treatment and disposal facility appears to be operating satisfactorily at present. A sample of the effluent was collected for analysis, a copy of the analytical result will be forwarded to you when it becomes available.

As requested, we enclose a copy of your permit, with its attendant 'special conditions'. We draw your attention to special condition 3 requiring you to regularly sample the effluent from the treatment plant. In terms of sample collection and analysis, we suggest you contact the staff at the Warkworth Wastewater treatment plant. They will be able to advise you on sampling procedures and analytical fees.

Should you have any queries regarding this matter, please contact the undersigned on 366 2000 ext 8458, or Nicola Bell on ext 7189.

Yours faithfully,


Ross Winterburn
Resource Quality Officer
ARC ENVIRONMENT

ENVIRONMENTAL MANAGEMENT DEPARTMENT FIELD SHEET

SURVEY OR LOCATION IDENTIFIER: <u>SANDSPIT MOTOR CAMP</u>	DATE: <u>25/3/96</u>	SAMPLED BY: <u>R. W. Wierzbien</u> <u>N. Bell</u>	Order No. <u>H110971</u>
			CONSENT No. <u>C 7835</u>

FIELD OBSERVATIONS		WEATHER RECENTLY	Last 24 hours	Last 7 days
SAMPLE/SITE DESCRIPTION				
BOTTLE/SAMPLE No.	1			
TIME	12:45			
WEATHER	Appearance: <u>high c</u>			
(Beaufort scale)	Precipitation: <u>N:1</u>			
WIND	Speed: <u>2</u>			
(Beaufort scale)	Direction: <u>SW</u>			
WAVE HEIGHT (m)	—			
GAUGE HEIGHT (m)	—			
FLOW (estimated/measured)	<u>End Pipe - trickle.</u>			
SAMPLE DEPTH	<u>Surface.</u>			
COLOUR	<u>Clear</u>			
CLARITY	<u>Clear</u>			
ODOUR	<u>Musty</u>			
TEMPERATURE (°C)	X			
pH (Paper/meter)	/			
D.O. (ppm)	/			
SALINITY (‰)	/			
CONDUCTIVITY ()	/			
SECCHI DEPTH (m)	/			

NOTES:

No thermometer

SAMPLING DIAGRAM/SITE PLAN

REQUEST TO SCIENTIFIC SERVICES LABORATORY
From Environmental Management Department

Survey/Location Identifier: SANDSPIT MOTOR CAMP.
 Sample Date: 28/3/96 Sampled By: RW/NB.
 Charge to Order/Consent No.: H110971/C 7835 Number of Sites: _____
 Sample Received: _____ Number of Bottles: _____

Copy To: C. Hatton, Manager, Resource Quality Section,
R. Azzara, Resource Quality Section.

BATCH NO. 96/2386

[illegible]

ARC ENVIRONMENT - Pollution Sample Field/Laboratory Sheet

SURVEY OR LOCATION ID: <i>Amalspit Motor Camp</i>	
Date of Sample: <i>11/5/95</i>	Number of Samples:
Sampled By: <i>Pa</i>	Order Number: <i>H110829</i>
Laboratory Name: <i>WSL</i>	Date Delivered to Laboratory: <i>11/5/95</i>
Laboratory Id/Batch No: <i>95/3171</i>	ROUTINE/URGENT (Date Required):

FIELD OBSERVATIONS	Weather:			
BOTTLE NUMBER	<i>WB SIS</i>			
SAMPLE NUMBER	<i>1</i>			
SAMPLE DESCRIPTION	<i>Amalspit STP</i>			
Sampling Time	<i>1350</i>			
Flow (estimate)				
Sample Depth	<i>Surface</i>			
Appearance	<i>Clear</i>			
Odour	<i>Al septa</i>			
Temperature (°C)				
pH				
Conductivity				
Other:				

ANALYSIS REQUIREMENTS:	✓				
Presumptive coliforms mpn/100ml	X				
Faecal Coliforms (mf) cfu/100ml	X				
Enterococci (mf) cfu/100ml	X				
pH					
Conductivity @25 °C mS/m					
Non-Filtrable Residue mg/l	X				
Dissolved Oxygen mg/l O					
BOD mg/l O	X				
Nitrite Nitrogen mg/l N					
Nitrate Nitrogen mg/l N					
Ammonia Nitrogen (NH ₃ +NH ₄) mg/l N					
Total Phosphorus mg/l P					
Soluble Reactive Phosphorus mg/l P					
TKN					
Oil and Grease					

ALL ANALYTICAL RESULTS TO: The Secretary
Resource Quality
ARC Environment
Private Bag 68 912
Newton

Telephone: 379 4420 extn: 8454
Facsimile: 366 2155

212	Notes:
---	--

ORIGIN	
Samples Taken by:	Signature:
Date Samples Taken:	Time Samples Taken:
STORAGE	
Stored at:	
Date/Time In:	Date/Time Out:
TRANSPORTED TO LABORATORY	
Transported By:	Signature:
DESTINATION	
Laboratory:	
Received By:	Signature:
Date of Receipt:	Time of Receipt:

Page: 1

Distribution List

Copy To: Susan Winter, Resource Quality Section, E&P.

Watercare Services Ltd
Scientific Services Dept
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

Environment & Planning 0478
Auckland Regional Council
Private Bag
Auckland 1

Batch Number: 95/03171 E&P Compliance Monitoring sampling/no
Received....: 11/05/95 16:19

Sample No	Date	Description	Testcode	Identification	Units
01	11/05/95	WB 515 SANDSPIT MOTOR CAMP	BOD	Biochemical oxygen demand (CBOD5)	mg/l Oxygen
			MPN-faec	Faecal coliforms	/100ml
			MPN-Pres	Presumptive coliforms	/100ml
			pH	pH	
			SS	Suspended solids	mg/l

Sample No. 01

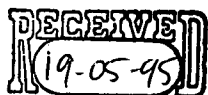
BOD	<5.0	✓
MPN-faec	70000	?
MPN-Pres	350000	?
pH	7.4	
SS	3.0	✓

No enterococci result due to reading being too high to record.

Sampling/Yes:= As per Scientific Services sampling manual.
Sampling/No := Results are reported on an as received basis.
This report may not be reproduced except in full.

Section Head: D. Fitzgerald Date: 17/5/95

----- END OF REPORT : 1 PAGE -----



ENVIRONMENTAL MANAGEMENT DEPARTMENT FIELD SHEET

SURVEY OR LOCATION IDENTIFIER: <u>SANDSPIT MOTOR CAMP</u>	DATE: <u>10-2-93</u>	SAMPLED BY: <u>CS</u>	Order No. <u>H 110081</u>
CONSENT No.			

FIELD OBSERVATIONS		WEATHER RECENTLY		Last 24 hours <u>8:00-5:00</u> Last 7 days <u>18:00-18:00</u>	
SAMPLE/SITE DESCRIPTION		<u>Motor Camp Effluent</u>	<u>Plant</u>	<u>Effluent 2 Bacto</u>	<u>Plant 2 Bacto</u>
BOTTLE/SAMPLE No.		<u>WB 463</u>	<u>WB 462</u>	<u>WB 463a</u>	<u>WB 462a</u>
TIME		<u>12:05</u>	<u>12:05</u>	<u>12:05</u>	<u>12:05</u>
WEATHER Appearance:		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
(Beaufort scale) Precipitation:		<u>r</u>	<u>r</u>	<u>r</u>	<u>r</u>
WIND Speed:		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
(Beaufort scale) Direction:		<u>S</u>	<u>S</u>	<u>S</u>	<u>S</u>
WAVE HEIGHT (m)		<u>—</u>			
GAUGE HEIGHT (m)		<u>—</u>			
FLOW (estimated/measured)					
SAMPLE DEPTH		<u>surface</u>	<u>surface</u>	<u>surface</u>	<u>surface</u>
COLOUR		opalescent	<u>opalescent</u>	<u>clear</u>	<u>straw</u>
CLARITY		<u>clear</u>	<u>b</u>	opalescent	<u>opalescent</u>
ODOUR		<u>slightly sewage</u>	<u>—————></u>		
TEMPERATURE (°C)		<u>—</u>			
pH (Paper/meter)		<u>—</u>			
D.O. (ppm)		<u>—</u>			
SALINITY (‰)		<u>—</u>			
CONDUCTIVITY ()		<u>—</u>			
SECCHI DEPTH (m)		<u>—</u>			

NOTES:

Sample taken at just after high tide
∴ outflow pipe completely submerged.

SAMPLING DIAGRAM/SITE PLAN

REQUEST TO SCIENTIFIC SERVICES LABORATORY
From Environmental Management Department

Survey/Location Identifier: Sandspit Motor Camp
 Sample Date: 10-2-93 Sampled By: CS
 Charge to Order/Consent No.: H110081 Number of Sites: 1
 Sample Received: 3.00 Number of Bottles: 1

Copy To: C. Hatton, Manager, Resource Quality Section, *100-102* BATCH : 93/00806
R. Azzara, Resource Quality Section.

[illegible]

Page: 1

Distribution List

Copy to 1: C. Hatton, Manager, Resource Quality Section, E&P.

2: R Azzara, Resource Quality Section, E&P.

Watercare Services Ltd
Scientific Services Dept
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

Environment & Planning
Auckland Regional Council
Private Bag
Auckland 1

Batch Number: 93/00806

Received.....: 10/02/1993 15:53

Sample No	Date	Description	Testcode	Identification	Units
00001	10/02/93	WB463 MOTOR CAMP EFFLUENT	COD	Chemical oxygen demand	mg/l O
00002	10/02/93	WB462 PLANT	MPN-faec	Faecal coliforms	/100ml
			MPN-Pres	Presumptive coliforms	/100ml
			SS	Suspended solids	mg/l

Sample No.	COD	MPN-faec	MPN-Pres	SS
00001	706.6	33000	920000	21.0
00002	36.9	1600000	>1800000	4.6

Auckland Regional Authority

Private Bag, Auckland. Telephone 794-420, Regional Water Board

J+T EVANS
SANDPIT MOTOR CAMP
TO FOX 40
WARKWORTH

For enquiry please contact:

RAMON SCOTTE

Our Ref: 14/10/CE/7835

Please quote references in your reply

Date: 10-2-93

Dear Sir/Madam

Re: WATER RIGHT / WASTE SOURCE MONITORING

Your wastewater treatment facility/property has been inspected on: 19-1-93

Type of waste and treatment: MOTOR CAMP → TACKAGE FILLT/UV → SLURRY

Site address (if different from above): KAWAU LANDING, SANDPIT

Observations: RESULTS: Sample Allowable Maximum

POD (gO/m^3) 50.0 20

DEF (g/m^3) 42.7 30

Faecal Coliforms (MPN/100ml) 1,600,000 200

Enterococci (CFU/100ml) >100,000 35

NOTE: The results show that effluent from the plant exceeds the allowable maximum values set in the permit. Resampling of this plant will be undertaken to confirm whether this was due to solids passing through the system or failure in the system.

☒ Samples taken (results will be forwarded)

☐ No samples taken

This inspection was made in the presence of occupier (YES/NO) Other (state)

A copy of this notice was delivered:

By hand to or By Mail

Copy also sent to Local Authority: ROUNLY DISTRICT COUNCIL

You are advised that if you wish to make any comment on this inspection you should contact the Manager, Regional Water Board, at the above address in writing within two weeks from the date hereof.

Yours faithfully,

Per:

Manager
AUCKLAND REGIONAL WATER BOARD

Ramon Scotte
TECHNICAL OFFICER

Page: 1

Distribution List

Copy to 1: C. Hatton, Manager, Resource Quality Section, E&P.

2: R Azzara, Resource Quality Section, E&P.

Watercare Services Ltd
Scientific Services Dept
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2562 822
Facsimile: (09) 2751 550

Environment & Planning
Auckland Regional Council
Private Bag
Auckland 1

Batch Number: 93/00311

Received....: 19/01/1993 15:43

Sample No	Date	Description	Testcode	Identification	Units
00001	19/01/93	E&P WB75 COMPL MONIT FAR NTH	BOD	Biochemical oxygen demand	mg/l '0
00002	19/01/93	E&P WB76 COMPL MONIT FAR NTH	MPN-faec	Faecal coliforms	/100ml
00003	19/01/93	E&P WB101 COMPL MONIT FAR NTH	MPN-Pres	Presumptive coliforms	/100ml
00004	19/01/93	E&P WB105 COMPL MONIT FAR NTH	SS	Suspended solids	mg/l
00005	19/01/93	E&P WB109 COMPL MONIT FAR NTH	EntermeEE	Enterococci	/100ml
00006	19/01/93	E&P WB128 COMPL MONIT FAR NTH			

Sample No.	BOD	MPN-faec	MPN-Pres	SS	EntermeEE
00001	6.0	700	7900	46.5	
00002	<1.0	2300	2300	3.6	
00003	1.2	790	790	22.0	
00004	0.6	3300	4900	4.2	
00005	4.0	130	790	24.7	
00006	50.0	1600000	>1800000	48.7	>100000

From Environmental Management Department

Sample Recieved: _____ Number of Bottles: 12

Batch 93/00311

[illegible]

ENVIRONMENTAL MANAGEMENT DEPARTMENT FIELD SHEET

SURVEY OR LOCATION IDENTIFIER:	<u>COMPLIANCE MONITORING - FAR NORTH</u>	
DATE: <u>19-1-93</u>	SAMPLED BY: <u>RS</u>	Order No. <u>H110081</u>
		CONSENT No.

FIELD OBSERVATIONS		WEATHER RECENTLY		Last 24 hours _____ Last 7 days _____		
SAMPLE/SITE DESCRIPTION	PAKIRI BEACH CAMP	10m u/s	LEIGH FISHERIES EFFLUENT	10m p/s	LEIGH MOTEL	SANDSPIT MOTOR CAMP
BOTTLE/SAMPLE No.	WB75	WB76	WB101	WB105	WB109	WB128
TIME	0900	0950	0955	1000	1020	1100
WEATHER Appearance:	OC	BC			OC	BC
(Beaufort scale) Precipitation:	NIL	NIL			NIL	NIL
WIND Speed:	2	2			2	3
(Beaufort scale) Direction:	SE	SE			SW	SW
WAVE HEIGHT (m)	/					
GAUGE HEIGHT (m)	/					
FLOW (estimated/measured)	/					
SAMPLE DEPTH	SURFACE	SURFACE	—	→	SURFACE	SURFACE
COLOUR	LT. YELLOW	NIL	V. LT. YELLOW	V. LT. YELLOW	LT. GREEN	GREY
CLARITY	CLEAR	CLEAR	OPALESCENT	CLEAR	CLEAR	TURBID
ODOUR	SULPHUROUS	EARTHY	SL. SEPTIC ^{FISH}	EARTHY	DISINFECTANT	EARTHY
TEMPERATURE (°C)	/					
pH (Paper/meter)						
D.O. (ppm)						
SALINITY (‰)						
CONDUCTIVITY ()						
SECCHI DEPTH (m)						

NOTES:

SAMPLING DIAGRAM/SITE PLAN

- Pakiri Beach Camp wetlands could do with a progressive harvest.
Sample taken at outlet of engineered wetland
- Leigh fisheries - grass growing into pond & wetlands, time for a spring clean
- Leigh Motel UV unit installed & operating
- Sandspit MC - some mud into sample because pipe sunk into mangrove mud.

FIELD SHEET

SURVEY OR LOCATION IDENTIFIER:

DATE: 9/12/91

SAMPLED BY: D. McKnight

CENTRE No. 41500

CONSENT No. NA

WEATHER
RECENTLY

Last 24 hours

Last 7 days

Sandspit
Motor Camp
sewage treatment
plant effluent

1

12-15 PM.

Appearance:

Precipitation:

Speed:

Direction:

(m)

(m)

measured)

(c)

(900)

()

(m)

SAMPLING DIAGRAM/SITE-PLAN

NOTE : NOT LARGE
#S AT 192L

From Regional Water Board

Copy To: C. Hatton, Principal Officer, Water Quality Section.

Results Dom McCarthey or D. McKnight.

[illegible]

Sandspit Motor Camp
PO Box 40
WARKWORTH

Our ref:

G810NULJ

14/10/Ce7835

*Just advertised.*ATTENTION: MR EVANS

9 August 1991

Dear Sir

RE: WASTE WATER TREATMENT PLANT

As discussed during a site visit to your motor camp on July 23rd, 1991, please find below analytical results from samples of final effluent from the treatment plant. Samples were collected during a period of very low usage of camp facilities and during wet weather.

Dissolved Oxygen:	1.0 (gO/m ³)
Biochemical Oxygen Demand:	6.0 (gO/m ³)
Suspended Solids:	14.0 (g/m ³)

Nutrients:

Nitrate (NO ₃ -N):	1.33 (gN/m ³)
Nitrite (NO ₂ -N):	0.28 (gN/m ³)
Ammonical (NH ₄ -N):	23.0 (gN/m ³)
Soluble Reactive Phosphate:	9.7 (gP/m ³)
Total Phosphate:	10.2 (gP/m ³)

Bacteria:

Presumptive Coliforms:	1.8 x 10 ⁶ (mpn/100 ml)
Faecal Coliforms:	1.6 x 10 ⁶ (mpn/100 ml)

The results show surprisingly high nutrient levels and the expected high bacterial levels. Ammonia in raw sewage is normally oxidised to Nitrate in treatment plants. The high levels suggest either sludge build-up in the settling tank or flush through perhaps by stormwater infiltration.

As discussed ARWB is concerned with the potential deterioration of receiving water quality caused by the discharge. Ultra violet irradiation of the final effluent could reduce bacterial levels in the discharge to acceptable levels. Tidal staging of the discharge to maximise dilution and dispersion of the effluent is another suggestion.

.../2

Sample from: SAHOSRI METRA CAMP

Address :

Sample by : D. McNEEL

Charge No: R 41560

Phone No :

Sample date : 9/12/91

Sample received : 9/12/91

No of samples : 1

Weather :

Result to : D. McNEEL / Dominic McCully

Sample Reference : 9321

Copy to :

Amount filtered:

Analysis:	Sample No.:	Sample Name	Test				
Coliform : Presumptive	mpn/100 ml		X	919321			
Coliform : Faecal	mpn/100 ml		X	700,000			
Coliform : Total (ml) Endo clu/100 ml				230,000			
Coliform : Faecal (ml)	clu/100 ml						
Enterococci (ml)	clu/100 ml						
E. coli : MUG	mpn/100 ml						
E. coli : mTEC	clu/100 ml						
IPC	clu/1 ml						
Streptococci Faecal (ml)	clu/100 ml						
Streptococci Faecal	mpn/100 ml						
Giardia							
Cryptosporidium							
Analysis:	Sample No.:	Sample Name	Test				
Coliform : Presumptive	mpn/100 ml						
Coliform : Faecal	mpn/100 ml						
Coliform : Total (ml) Endo clu/100 ml							
Coliform : Faecal (ml)	clu/100 ml						
Enterococci (ml)	clu/100 ml						
E. coli : MUG	mpn/100 ml						
E. coli : mTEC	clu/100 ml						
IPC	clu/1 ml						
Streptococci Faecal (ml)	clu/100 ml						
Streptococci Faecal	mpn/100 ml						
Giardia							
Cryptosporidium							

Note: When the Laboratory has not been responsible for sampling, results apply to the sample as received.

Date: 18-12-91

File : ITSHEET.WK1

J. J. Komasse
for Scientist (Microbiology)

It is fairly certain that nutrient and bacterial levels in the final effluent will rise as the camp is more fully occupied. Receiving water quality would therefore be potentially greatest affected at a time when recreational usage of surrounding water is at its peak.

I will contact you for further discussions when the objection period for your water right application has closed.

Yours faithfully

K E Connolly
Manager
AUCKLAND REGIONAL WATER BOARD

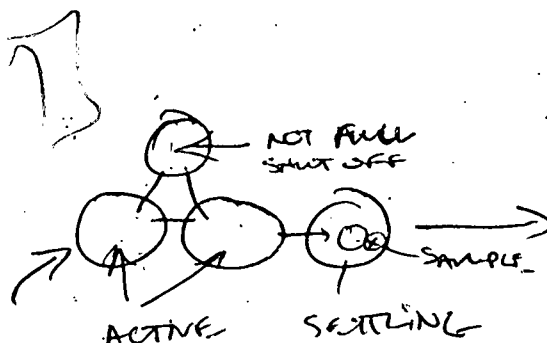
Per:

Dominic McCarthy
WATER QUALITY OFFICER

Date: 23-7-91
 Weather: RAIN
 Appearance Sky: OTCAST
 Wind: LIGHT
 Weather Recently: RAIN
 Collected By: LEM

Bottle No.

Sample Site Description/Map



General Comments:

SANDSPIT MOTOR CAMP

- MIN WINTER -- LOW ATTENDANCE

20-30 PEOPLE @ WEEKEND
 10 PEOPLE WEEK.

NO DISCHARGE @ VISIT
 FILTR TANK SAMPLED

Analyses done	Bottle No.	Bottle No.	Bottle No.	Bottle No.	Bottle No.	Bottle No.
on site	68					
time	12:45					
flow rate						
temperature °C						
colour						
odour						
pH						
DO						
Analyses Required (✓)						
OD	✓					
FR	✓					
H						
DO	✓					
- as Nitrite NO ₂	✓					
- as Nitrate NO ₃	✓					
- as Ammonia NH ₃	✓					
phosphate - reactive	✓					
phosphate total	✓					
presumptive Coliforms	✓					
faecal Coliforms	✓					

SCIENTIFIC SERVICES LABORATORY ANALYSIS

Sample from : Landspil- Motorcamp. RWRB
 Address : 40 RWRB
 Sampled by : Dominic Charge No : Q 41500 Phone No : 794420
 Sample date : 23/7/91 Sample Received : 23/7/91 No of samples : 1
 Copy to : C. Hutton RWRB Sample Reference :
 :

Analysis			X for	Samples				
			Test	68				
Coliform :	Presumptive	mpn/100 ml	X	1800,000				
	Faecal	mpn/100 ml	X	1600,000				
Enterococci		per 100 ml						
pH								
Turbidity		NTU						
Conductivity @25 deg C		mS/m						
Residue :	Suspended	mg/l	X	14.0				
Dissolved Oxygen		mg/l O	X	1.0				
Biochemical Oxygen Demand		mg/l O	X	6.0				
Chemical Oxygen Demand		mg/l O						
Chlorophyll " a "		mg/l						
U V Absorption @ 254nm(membrane filtered)								
Chloride		mg/l Cl						
Alkalinity	Total	mg/l CaCO3						
Nitrogen :	Nitrate	mg/l N	X	1.33				
	Nitrite	mg/l N	X	0.280				
	Ammonia	mg/l N	X	23.0				
	Total Kjeldahl	mg/l N						
Phosphorus : Total		mg/l P	X	10.2				
	Soluble Reactive	mg/l P	X	9.7				

Comments :

Laboratory Supervisor

D.B. Hall

Date : 7/8/91