



Auckland
Regional Council
TE RAUHITANGA TAIAO

File 7835
Consent 22315

To: Consents & Compliance Monitoring

FLOW RECORDS

CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
MONTH	December <u>January</u> February

Calculating your Daily Flow enables you to monitor your flow volumes, and ensure they are below the Maximum Authorised Discharge Quantity.

DATE	METER READING	DAILY FLOW (difference between today and yesterday's reading)	PUMP HOURS & OTHER COMMENTS
1st	9360		
2nd	9365	5	
3rd	9370	5	
4th	9375	5	
5th	9380	5	
6th	9385	5	
7th	9390	5	
8th	9395	5	
9th	9400	5	
10th	9405	5	
11th	9410	5	
12th	9415	5	
13th	9420	5	
14th	9426	6	
15th	9430	4	
16th	9435	5	
17th	9441	6	
18th	9449	8	
19th	9455	6	
20th	9460	5	
21st	9466	6	
22nd	9470	4	
23rd	9476	6	
24th	9482	6	
25th	9495	13	
26th	9523	28	
27th	9554	31	
28th	9571	17	
29th	9594	23	
30th	9614	20	
31st	9646	26	

Attention	M.....
Information	M.....
	W.....
- 7 MAR 2007	
REC'D	A.R.C.

Please forward these records to ARC, Private Bag 92-012, Auckland, Fax: 09 366 2155 by 1 March, 1 June, 1 September and 1 December of each year.



Auckland
Regional Council
TE RAUHI TANGA TAIAO

File 7835
Consent 22315

To: Consents & Compliance Monitoring

FLOW RECORDS

CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
MONTH	December January <u>February</u>

Calculating your Daily Flow enables you to monitor your flow volumes, and ensure they are below the Maximum Authorised Discharge Quantity.

DATE	METER READING	DAILY FLOW (difference between today and yesterday's reading)	PUMP HOURS & OTHER COMMENTS
1st	10247		
2nd	10265	16	
3rd	10275	10	
4th	10286	11	
5th	10304	18	
6th	10318	14	
7th	10327	9	
8th	10339	12	
9th	10347	9	
10th	10356	9	
11th	10365	5	
12th	10370	8	
13th	10378	7	
14th	10386	7	
15th	10395	7	
16th	10400	10	
17th	10410	10	
18th	10424	14	
19th	10438	14	
20th	10451	13	
21st	10454	3	
22nd	10464	10	
23rd	10474	10	
24th	10483	9	
25th	10493	10	
26th	10503	10	
27th	10513	10	
28th	10526	13	
29th			
30th			
31st			

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Page: 1
COPY TO 1: BRIAN MORRISON
2: FILE/11S

Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: 539 7614
Facsimile: 539 7620

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 07/03267
Received....: 05/02/07 15:49:55

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units
01	05/02/07	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (2005) 5210 B	mg/L O
Enter-mE	Enterococci		APHA (2005) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (2005) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (2005) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (2005) 2540 D	mg/L

Sample No.	01
BOD	30.0
SS	12.8
Enter-mE	16000
MPN-faec	7000000
MPN-Pres	30000000

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Section Head: _____ Date: 16/2/07

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



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Regional Council
TE RAUHITANGA TAIAO

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To: Consents & Compliance Monitoring

FLOW RECORDS

CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315 File 7835
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
MONTH	December January February

Calculating your Daily Flow enables you to monitor your flow volumes, and ensure they are below the Maximum Authorised Discharge Quantity.

DATE	METER READING	DAILY FLOW (difference between today and yesterday's reading) <i>last month</i>	PUMP HOURS & OTHER COMMENTS
1st			
2nd			
3rd	7892		
4th			No problems occurred
5th			
6th	8232	340	during this period
7th			
8th			
9th	8495	263	Solids in septic tank broken up mid March and bio tube
10th			filter cleaned as per maintenance schedule.
11th			
12th			
13th			
14th			
15th			
16th			
17th			
18th			
19th			
20th			
21st			
22nd			
23rd			
24th			
25th			
26th			
27th			
28th			
29th			
30th			
31st			

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01 JUN 2006



Auckland Regional Council

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Regional Council
TE RAUHITANGA TAIAO

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To: Consents & Compliance Monitoring

FLOW RECORDS

CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315, <u>FLR 7835</u>
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
MONTH <u>DECEMBER 05</u>	<u>December</u> January February

Calculating your Daily Flow enables you to monitor your flow volumes, and ensure they are below the Maximum Authorised Discharge Quantity.

DATE	METER READING	DAILY FLOW (difference between today and yesterday's reading)	PUMP HOURS & OTHER COMMENTS
1st	6804		
2nd	6809	5	
3rd	6815	6	
4th	6824	9	
5th	6830	6	
6th	6835	5	
7th	6840	5	
8th	6843	3	
9th	6848	5	
10th	6852	4	
11th	6860	8	
12th	6865	5	
13th	6871	6	
14th	6877	6	
15th	6882	5	
16th	6888	6	
17th	6895	7	
18th	6900	5	
19th	6906	6	
20th	6913	7	
21st	6920	7	
22nd	6924	4	
23rd	6932	8	
24th	6942	10	
25th	6952	10	
26th	6960	8	
27th	6976	16	
28th	6992	16	
29th	7013	21	
30th	7035	22	
31st	7057	22	

Please forward these records to ARC, Private Bag 92 012, Auckland, Fax: 09 366 2155 by 1 March, 1 June, 1 September and 1 December of each year.

1/1/06 7081
2/1/ 7101
3/1/ 7123

24

20

22

7145

7167

7188

7211

7234

22

22

22

23

23

7277-20

7257-23



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Regional Council
TE RAUHITANGA TAIAO

To: Consents & Compliance Monitoring

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Auckland Regional Council

FLOW RECORDS

CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315, Re 7835
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
MONTH	JANUARY 06 December January February

Calculating your Daily Flow enables you to monitor your flow volumes, and ensure they are below the Maximum Authorised Discharge Quantity.

DATE	METER READING	DAILY FLOW (difference between today and yesterday's reading)	PUMP HOURS & OTHER COMMENTS
1st	7081	24	
2nd	7101	20	
3rd	7123	22	
4th	7145	22	
5th	7167	22	
6th	7188	21	
7th	7211	23	
8th	7234	23	
9th	7257	23	
10th	7277	20	
11th	7298	21	
12th	7216	18	
13th	7332	16	
14th	7349	17	
15th	7367	18	
16th	7384	17	
17th	7403	19	
18th	7421	18	
19th	7441	20	
20th	7460	19	
21st	7479	19	
22nd	7499	20	
23rd	7521	22	
24th	7538	17	
25th	7551	13	
26th	7561	10	
27th	7577	16	
28th	7595	18	
29th	7616	21	
30th	7636	20	
31st	7653	17	

Please forward these records to ARC, Private Bag 92 012, Auckland, Fax: 09 366 2155 by 1 March, 1 June, 1 September and 1 December of each year.



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FLOW RECORDS

CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315, <i>File 7835</i>
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
MONTH <i>FEBRUARY</i> <i>06</i>	December January February

Calculating your Daily Flow enables you to monitor your flow volumes, and ensure they are below the Maximum Authorised Discharge Quantity.

DATE	METER READING	DAILY FLOW (difference between today and yesterday's reading)	PUMP HOURS & OTHER COMMENTS
1st	<i>7666</i>	<i>13</i>	
2nd	<i>7684</i>	<i>18</i>	
3rd	<i>7703</i>	<i>19</i>	
4th	<i>7723</i>	<i>20</i>	
5th	<i>7743</i>	<i>20</i>	
6th	<i>7764</i>	<i>21</i>	
7th	<i>7776</i>	<i>12</i>	
8th	<i>7791</i>	<i>15</i>	
9th	<i>7796</i>	<i>5</i>	
10th	<i>7803</i>	<i>7</i>	
11th	<i>7812</i>	<i>9</i>	
12th	<i>7824</i>	<i>12</i>	
13th	<i>7836</i>	<i>12</i>	
14th	<i>7844</i>	<i>8</i>	
15th	<i>7854</i>	<i>10</i>	
16th	<i>7861</i>	<i>7</i>	
17th	<i>7864</i>	<i>3</i>	
18th	<i>7871</i>	<i>7</i>	
19th	<i>7882</i>	<i>11</i>	
20th	<i>7896</i>	<i>14</i>	
21st	<i>7905</i>	<i>9</i>	
22nd	<i>7914</i>	<i>9</i>	
23rd	<i>7923</i>	<i>9</i>	
24th	<i>7932</i>	<i>9</i>	
25th	<i>7942</i>	<i>10</i>	
26th	<i>7959</i>	<i>17</i>	
27th	<i>7974</i>	<i>15</i>	
28th	<i>7981</i>	<i>7</i>	
29th	<i>7988</i>	<i>7</i>	
30th			
31st			

Please forward these records to ARC, Private Bag 92 012, Auckland, Fax: 09 366 2155 by 1 March, 1 June, 1 September and 1 December of each year.

~~Jan, April, July & Oct.~~
Jan & July

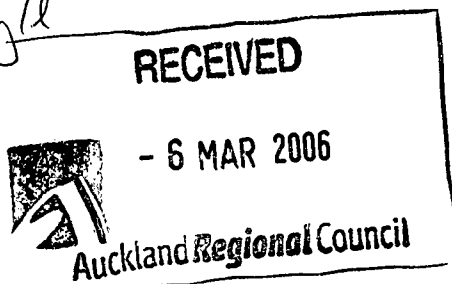
Consent No 22315

File 7835

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SS 220 g/l



Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 06/02671
Received....: 01/02/06 14:36:28

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units

01	01/02/06	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L

Sample No.	01
BOD	9.5
SS	4.
Enter-mE	800
MPN-faec	3400
MPN-Pres	50000

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

Date: 9, 2, 06

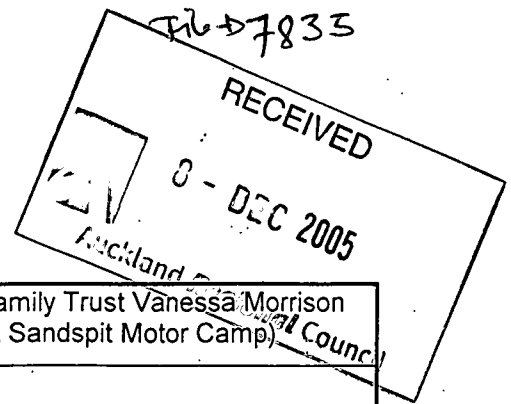
----- END OF REPORT : 1 PAGE -----



Auckland
Regional Council
TE RAUHITANGA TAIAO

To: Consents & Compliance Monitoring

FLOW RECORDS



CLIENT	Brian Morrison Family Trust Vanessa Morrison Family Trust (T/A Sandspit Motor Camp)
CONSENT NUMBER	22315
AUTHORISED DISCHARGE QUANTITY	25 cubic metres per day
DATE	First day of month – March- November

- Calculating your “Daily Average Flow” allows you to monitor your own flow volumes, and ensure that they do not exceed the maximum authorised discharge quantity.

[illegible]

Please forward these records to ARC, Private Bag 92 012, Auckland, Fax: 09 366 2155.

(acc
encl)

TAX INVOICE/STATEMENT

Date 2 / 7 / 05 496898

To

Scout motor camp

RD

Warkworth

From

~~McJimray~~

R.D. 3

Wellsford

GST Reg. No.

GST No. 17-950-509

Ref: 16-97N

[illegible]**COLLINS A5 DL NCR**

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Auckland Regional Council

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SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2731550

Attn: Brian Morrison

Batch Number: 05/20092
Received.....: 01/08/05 13:26:54

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units
01	01/08/05	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L
Sample No.	01			
BOD	3.3			
SS	32.			
Enter-mE	240			
MPN-faec	230			
MPN-Pres	3000			

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

Date: 8/8/05

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Auckland Regional Council

Sandspit Motor Camp
1334 Sandspit Rd.
R. D 2
WARKWORTH
4/3/05

A.R.C.

Private Bag. 92012
AUCKLAND.

PERMIT No. 22315
FILE REF. 7835

Attn. Dianne Holt Pederson.

Dear Dianne.

Enclosed are water-care results
of sample taken 1/02/05

Also pump readings for Dec/Jan/Feb as
required

There has been no problem with the plant
this summer. Solids were removed from
the septic tank in mid December. (I find
it advantageous to do it every year pre-christmas
as that is of course our heaviest usage period)

I am sorry I missed your visit last
week. I hope everything was satisfactory

Regards.

Brian Morrison.

December

2004

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 4417	2 4421	3 4424	4 4428
5 4433	6 4441	7 4445	8 4450	9 4455	10 4456	11 4458
8	4	5	5	1	2	4
12 4462	13 4470	14 4478	15 4481	16 4487	17 4493	18 4498
8	8	3	6	6	5	5
19 4503	20 4510	21 4516	22 4521	23 4526	24 4533	25 4541
7	6	5	5	7	5	10
26 4551	27 4566	28 4576	29 4581	30 4586	31 4634	4588
15	20	15	15	15	20	

January

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 4654 17
2 4671 21	3 4692 13	4 4705 14	5 4723 18	6 4738 15	7 4756 19	8 4774 18
9 4792 18	10 4808 16	11 4826 18	12 4845 19	13 4865 20	14 4886 21	15 4901 15
16 4921 26	17 4938 17	18 4958 20	19 4976 18	20 4995 19	21 5013 18	22 5052 19
23 5051 19	24 5071 20	25 5090 19	26 5103 13	27 5114 11	28 5128 14	29 5144 16
30 5164 20	31 5181 17					

February

2005

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		¹ 5187	² 5192	³ 5199	⁴ 5209	⁵ 5217
⁶ 5229	⁷ 5242	⁸ 5252	⁹ 5261	¹⁰ 5270	¹¹ 5279	¹² 5288
¹³ 5304	¹⁴ 5316	¹⁵ 5324	¹⁶ 5332	¹⁷ 5342	¹⁸ 5349	¹⁹ 5361
²⁰ 5379	²¹ 5390	²² 5394	²³ 5404	²⁴ 5408	²⁵ 5414	²⁶ 5421
²⁷ 5428	²⁸ 5442	5454 Thurs				

✓ 18

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27 AUG 2004

Sandspit Motor Camp,
1334 Sandspit Rd.
R.D. 2.

AUCKLAND REGIONAL COUNCIL Auckland Regional Council

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PRIVATE BAG. 92012

AUCKLAND.

PERMIT No. 22315

FILE REF. 7835

Enclosed is the watercare test results for the last effluent discharge samples.

The sample this time was taken from the lower tank in the system, as when I went to sample the upper tank, I found that it had just syphoned out and the water level was too low to obtain a sample.

As the courier was about to arrive I took the sample from the lower tank where it discharges from the digester. As this is before the final mesh filter (which is on the line which feeds up the hill,) it has resulted in a higher than normal suspended solids reading.

The faecal and presumptive coliform readings are similar to the last sampling and enterococci reading is far lower. (I enclose a photocopy of the January readings for comparison) There is no evidence of any buildup of sediment in the dripper lines. Meter readings for the last 6 months are as follows.

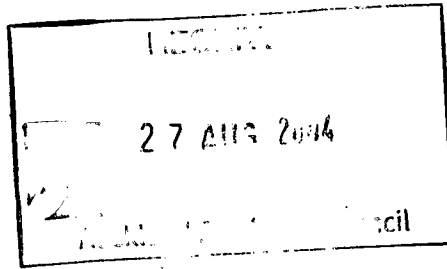
1st March 3112.	1st April. 3380	1st May 3628
1st June 3724	1st July 3846	1st Aug. 3930.

There were no problems occurred with the system during this period.

Yours faithfully

Brian Morrison

Page: 1
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SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Watercare Services Ltd.
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

Attn: Brian Morrison

Batch Number: 04/21047
Received....: 09/08/04 11:22

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units
01	09/08/04	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L

Sample No.	01
BOD	4.5
SS	43.
Enter-mE	200
MPN-faec	5000
MPN-Pres	28000

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: 17/08/04

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JAN. 2004

Page: 1
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Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 04/02299
Received....: 27/01/04 14:04

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units

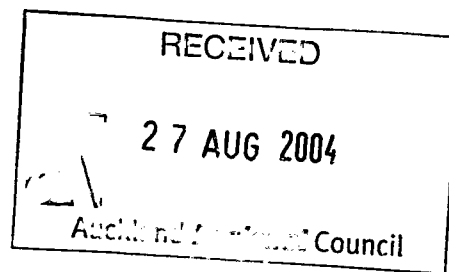
01	27/01/04	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L

Sample No.	01
SS	13.3
Enter-mE	730
MPN-faec	5000
MPN-Pres	30000
BOD	18.2

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: 3/2/04

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



File 7835

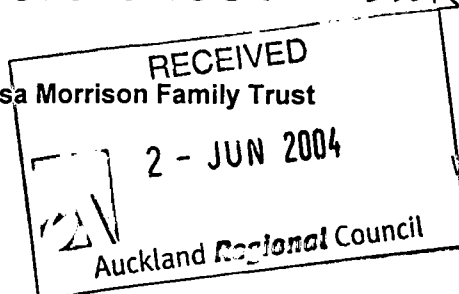
SEWERAGE DISPOSAL

~~water use~~ record sheet



Auckland
Regional Council
TE RAUHITANGA TAIAO

Brian Morrison Family Trust Vanessa Morrison Family Trust
(T/A Sandspit Motor Camp)
1334 Sandspit Road
RD 2
Warkworth 1241



Consent number -28246
6920
0000 SANDSPIT RD
WARKWORTH Rodney District
North East Groundwater
Low
Bore

Your Resource Consent requires that your water meter be read and the readings returned at the end of every quarter. For Dam or Groundwater users at least one reading per week is required unless stated otherwise in your consent conditions. For stream water users, unless stated otherwise in your consent conditions, one reading per day during pumping is required. **A dash (-) should be recorded for days when you don't pump.**

	MARCH 2004		APRIL 2004		MAY 2004	
	Meter Reading, m ³	litres	Meter Reading, m ³	litres	Meter Reading, m ³	litres
1	3112		3380		3628	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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20						
21						
22						
23						
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25						
26						
27						
28						
29						
30			3628		3724	
31	3380					

This form is to be returned to the Auckland Regional Council by: **15 JUNE 2004**

March
8.65/day
average

APRIL 24th
8.26/day

May
3.2/day

We're in it together 09 366 2000 www.arc.govt.nz

SANDSPIT MOTOR CANA
*PERMIT NO. 22315

Please find enclosed
sewerage disposal figures
for the last quarter.

Dec.	293 c.m.	(9.45)
Jan.	503 c.m.	(16.22)
Feb.	342 c.m.	(11.79)

per day.

Also. Watercare lab results
for samples taken.

27/1/04

No problems were evident
through this period.

Yours faithfully
Bria Morrison

File 7835

SEWERAGE DISPOSAL
~~water use~~ record sheet

RECEIVED



- 2 March 2004

Brian Morrison Family Trust Vanessa Morrison
Family Trust (T/A Sandspit Motor Camp)
1334 Sandspit Road
R D 2 Warkworth 1241

Auckland Regional Council Consent number 22079

Low

6020

0000 Sandspit Rd Warkworth Rodney District
North East Groundwater

Your Resource Consent requires that your water meter be read and the readings returned at the end of every quarter. For Dam or Groundwater users at least one reading per week is required unless stated otherwise in your consent conditions. For stream water users, unless stated otherwise in your consent conditions, one reading per day during pumping is required. A dash (-) should be recorded for days when you don't pump.

	DECEMBER 2003		JANUARY 2004		FEBRUARY 2004	
	Meter Reading, m ³	litres	Meter Reading, m ³	litres	Meter Reading, m ³	litres
1	1933		2248	22	2761	8
2	1939	6	2269	21	2775	14
3	1943	4	2283	14	2786	11
4	1947	4	2304	21	2799	13
5	1954	7	2327	23	2812	13
6	1960	6	2350	23	2827	15
7	1970	10	2372	22	2846	19
8	1978	8	2395	23	2866	10
9	1983	5	2419	24	2883	17
10	1989	6	2442	23	2896	13
11	1999	10	2456	14	2911	15
12	2005	6	2474	18	2924	13
13	2010	5	2490	26	2934	10
14	2019	9	2505	15	2946	12
15	2026	7	2520	15	2958	12
16	2031	5	2541	21	2973	15
17	2036	7	2559	18	2986	13
18	2043	7	2577	18	2999	13
19	2051	8	2592	15	3012	13
20	2060	9	2607	15	3024	12
21	2072	12	2619	12	3034	10
22	2084	12	2627	8	3045	11
23	2092	8	2651	24	3054	9
24	2102	10	2660	9	3064	10
25	2113	11	2671	11	3073	9
26	2125	12	2690	19	3083	10
27	2143	22	2707	17	3094	11
28	2164	21	2717	10	3103	9
29	2185	21	2725	8		
30	2205	20	2738	13		
31	2226	21	2753	15		

This form is to be returned to the Auckland Regional Council by: 15 MARCH 2004

Whakatepea te kō, kia kotahi We're in it together 09 379 4420 WWW.ARC.GOV.T.NZ

For more information phone Enviroline 0800 80 60 40

Page: 1
COPY TO 1: BRIAN MORRISON
2: FILE/11S

Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 04/02299
Received.....: 27/01/04 14:04

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units
01	27/01/04	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L

Sample No.	01
SS	13.3
Enter-mE	730
MPN-faec	5000
MPN-Pres	30000
BOD	18.2

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.

Section Head: Date: 3/2/05

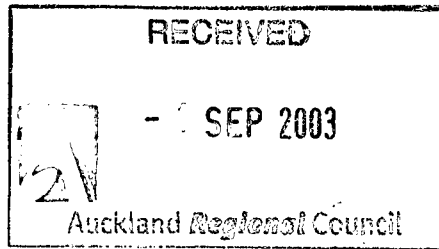
----- END OF REPORT : 1 PAGE -----

1334 Sandspit Rd.
R.D. 2
WARKWORTH.

File 7835

A.R.C.

Private Bag. 92012.
Auckland.



Consent No. 22315.

Brian Morrison Family Trust.

Sandspit Motor Camp.

Waste Water Discharge.

Enclosed.

Copy of Discharge test from Watercare.
services - Sample taken 4/08/03.

Flow records for this 6 month period are.

	<u>Reading</u>	<u>Usage</u>
Feb. —	543	230
Mar —	791	248
April —	1046	255
May —	1175	129
June. —	1280	105
July. —	1366.	86

✓ *[Signature]*

There were no complaints or emergencies
during this period
Yours faithfully

Brian Morrison
owner.

Page: 1
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Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 03/20737
Received....: 04/08/03 14:26

SAMPLING/NO

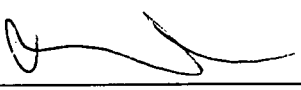
Sample No	Date	Description		
Test Code	Identification		Method	Units

01	04/08/03	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L

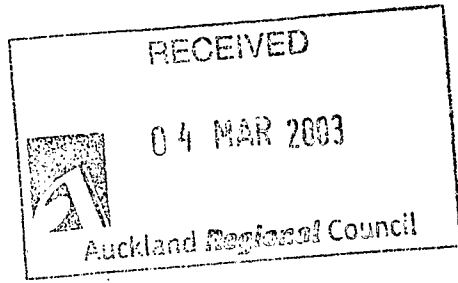
Sample No. 01

SS 12. ✓ 220
Enter-mE 5100
MPN-faec 220
MPN-Pres 5000
BOD 2.8

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Section Head:  Date: 18/08/03

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



7835
Sandspit Motor Camp.
1334 Sandspit Rd
R.D. 2.
WARKWORTH.
1 3 02

Consent Number 22315

Dear Tegan.

Enclosed are. Watercare results, for
Samples taken 29/1/03. Also daily readings for
December / Jan. / Feb. readings for the previous 3 months
are 1/9/02 - 7072 1/10/02 7203 1/11/02 7465

We have had no complaints during this 6 months
The motor on the air blower unit burnt out due
to a power surge on 26/8/02. The plant functioned
on the auxilliary unit while repairs were carried out.
The pump was also serviced at this time. See
enclosed report.

The water meter sheared off the stem inside on
27/12/02. As this was during xmas/new year break,
a new meter was not available until 10/1/03. Hence
no readings are available for this period.
Repairs were made to the leaking dripper
line (ricked by mower) on the afternoon of your visit.

Regards.

Brian Morrison

Page: 1
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Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 03/02547
Received.....: 29/01/03 16:53

SAMPLING/NO

Sample No	Date	Description		
Test Code	Identification		Method	Units

01	29/01/03	SANDSPIT MOTOR CAMP DISCHARGE		
BOD	Biochemical oxygen demand (CBOD5)		APHA (1998) 5210 5-2	mg/L O
Enter-mE	Enterococci		APHA (1998) 9230 C	cfu/100mL
MPN-faec	Faecal coliforms by MPN		APHA (1998) 9221 E	MPN/100mL
MPN-Pres	Presumptive coliforms by MPN		APHA (1998) 9221 B	MPN/100mL
SS	Suspended solids: Low Level by 47mm GF/C		APHA (1998) 2540 D	mg/L

Sample No.	01
SS	6.6
Enter-mE	780
MPN-faec	22000
MPN-Pres	90000
BOD	6.7

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

Date: 17/02/07

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

OK 

Brian Morrison Family Trust Vanessa Morrison Family Trust
(T/A Sandspit Motor Camp)
1334 Sandspit Road
R D 2 Warkworth

0000 SANDSPIT RD,
R D 2 Warkworth

~~Your Resource Consent requires that your water meter be read and the readings returned at the end of every quarter. For Dam or Groundwater users at least one reading per week is required unless stated otherwise in your consent conditions. For stream water users, unless stated otherwise in your consent conditions, one reading per day during pumping is required. A dash (-) should be recorded for days when you don't pump.~~

	DECEMBER 2002		JANUARY 2003		FEBRUARY 2003	
	Meter Reading, m ³	litres	Meter Reading, m ³	litres	Meter Reading, m ³	litres
	7684				313	
	7691				319	
	7696				329	
	7708				332	
	7721				340	
	7732				349	
Sat	7746				361	
	7759				374	
	7771				387	
	7785		0		403	
	7797		8		411	
	7808		23		418	
	7821		41		423	
Sat	7830		53		428	
	7844		73		436	
	7852		90		445	
	7861		110		452	
	7852		128		461	
	7865		148		465	
	7874		163		473	
Sat	7884		182		482	
	7895		200		489	
	7907		212		501	
	7921		228		511	
	7943		239		517	
	7949		258		523	
			275		531	
Sat	Meter broken		287		543	
			291			
			298			
			306			

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For more information phone Enviroline 0800 80 60 40

OK JRS

Masport  **BECKER**  **ORION** **ESAM** **GEV-BGS**

Pump Performance Report

Customer details		Contact	Order No	
Sandspit Motor Camp		Brian Morrison	Brian	
Location	Machine	Date	Job No	
4 Ways	N/A	19.09.05	J4W2546	
Make	Model	Serial No		
Rietschle	DFT 60 (02)	95 1673685		

Rated Vacuum	N/A	Actual Vacuum	N/A	Kw:	1.5
Rated Pressure	0.55bar	Actual Pressure	0.55bar	Rated Amps	3.1
Min Vane Depth	25mm	Actual Vane Depth	32.5mm	Actual Amps:	3.0
Vane condition:	Good	Stator condition	Good	Noise level	Normal
Oil level	N/A	Oil condition	N/A	Oil leaks	N/A
Ballast filter condition	N/A	Ballast filter type	N/A		
Pre-filter condition	N/A	Pre-filter element type	N/A		
Inlet filter condition	Good	Inlet filter type	2 x K2027		
Exhaust filter condition	N/A	Exhaust filter type	N/A		
Exhaust back pressure	N/A	Coupling condition	Good		

Pump general notes

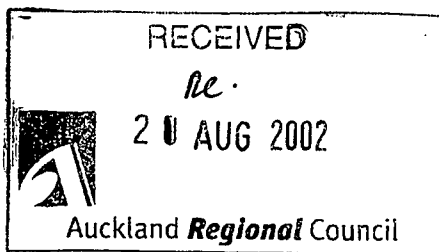
Pump delivered by customer on 26.08.02 to assess failure and repair accordingly. It was found that the motor had failed and the most cost effective solution was to replace the complete unit. The pump was given an internal inspection and clean, the vanes, bore and filters are all in good condition.

The pump was test run, with the results as above, and is performing correctly.

The pump was collected by Brian Morrison on 03.09.02., please ensure the correct electrical safety equipment is fitted to the power supply to stop any power surge blowing the motor.

Further work required

Fit electrical safety equipment, next service due in August 2003



Bria Morrison
SANDSPIT MOTOR CAMP.
1334 Sandspit Rd.
WARKWORTH.

20 8 02

Auckland Regional Council..
Private Bag 92012
AUCKLAND.

Re. Resource Consent. Permit. No. 22315
File reference 7835

Dear Sir/ma.

Enclosed is water-care lab results
for discharge sample taken 30/7/02.

Meter readings are as follows.

1st	March.	6138
1st	April.	6443
1st	May.	6658
1st	June.	6763
1st	July.	6868
1st.	Aug.	6974

Yours faithfully

Bria Morrison

OK
JB.

Page: 1
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Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 02/16015
Received....: 30/07/02 13:53

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	30/07/02	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (CBOD5)	mg/L O
			Enter-mE	Enterococci	cfu/100mL
			MPN-faec	Faecal coliforms by MPN	MPN/100mL
			MPN-Pres	Presumptive coliforms by MPN	MPN/100mL
			SS	Suspended solids: Low Level by 47mm GF/C	mg/L

Sample No.	01
SS	6.9
Enter-mE	55
MPN-faec	50
MPN-Pres	2400
BOD	<3.0

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Methodology: 20th-1998 edition APHA AWWA unless specified.

OK.

Section Head: MB Date: 7, 8, 02

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

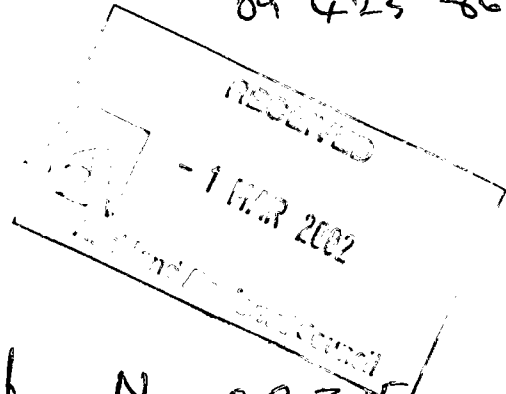
FILE - 7835

Sandspit Motor Camp.
1334 Sandspit Rd
R.D. 2

WARKWORTH.

09 425 4610

Auck. Regional Council.
Private Bag. 92012
AUCKLAND



Re. Discharge permit. No. 22315.
File Reference 7835

Enclosed.
Effluent sample results. for end
of January. 2002.

Copys of log for. Dec, Jan, Feb.
showing daily readings and. services
carried out during this period.

Yours faithfully

Brian Morrison

2 exceedences in Jan
Overflow occurred due
to blockage.

Page: 1

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Watercare Services Ltd
Laboratory Services
52 Aintree Avenue
Airport Oaks
Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 02/02361

Received....: 01/02/02 16:10

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	01/02/02	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (CBOD5)	mg/L O
			Enter-mE	Enterococci	cfu/100mL
			MPN-faec	Faecal coliforms by MPN	MPN/100mL
			MPN-Pres	Presumptive coliforms by MPN	MPN/100mL
			SS	Suspended solids: Low Level by 47mm GF/C	mg/L

Sample No. 01

SS 12. ✓ <20
Enter-mE 340
MPN-faec 8000
MPN-Pres 50000
BOD 5.0

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Methodology: 20th-1998 edition APHA AWWA unless specified.

Section Head: J. Fitzgerald Date: 12/2/02

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

May = 25

December

1	SAT	4921
2	SUN	4930
3	MON	4940
4	TUES	4949
5	WED	4952
6	THURS	4957
7	FRI	4963
8	SAT	4968
9	SUN	4975
10	MON	4981
11	TUES	4984
12	WED	4986
13	THURS	4989
14	FRI	4996
15	SAT	5002
16	SUN	5001
17	MON	19 5030
18	TUES	5042
19	WED	5048
20	THURS	5056
21	FRI	5061
22	SAT	5068
23	SUN	12 5080
24	MON	5092
25	TUES	5111
26	WED	5125
27	THURS	20 5145
28	FRI	18 5163
29	SAT	22 5185
30	SUN	20 5205
31	MON	17 5222

Checked
+ cleaned
Filter

Filter

URINAL VALVE TURNED
ON FULL BY CAMPER
HENCE EXCESS WATER USE 21cm

UV Lamp cleaned

Filter

Filter

January

1	Tue	5251
2	Wed	5274
3	Thu	5297
4	Fri	5318
5	Sat	5339
6	Sun	5361
7	Mon	5382
8	Tue	5402
9	Wed	5426
10	Thu	5448
11	Fri	5472
12	Sat	5496
13	Sun	5516
14	Mon	5537
15	Tue	5559
16	Wed	5582
17	Thu	5605
18	Fri	5631
19	Sat	5654
20	Sun	5678
21	Mon	5698
22	Tue	5718
23	Wed	5728
24	Thu	5749
25	Fri	5759
26	Sat	5774
27	Sun	5792
28	Mon	5817
29	Tue	5830
30	Wed	5838
31	Thu	5848

27

23

23

21

21 Filter cleaned

22

21

20

24

Filter cleaned

24

24

20

21

22 Filter clean

23

23

26

Pipe connecting tank 2 & 3 blocked by scum from side of tanks - some overflow of partially treated sewerage occurred - not serious

20

20

Filter cleaned

21

10 Desludge tanks + clean

15

UV lamp cleaned

filter clean

Sample taken -
Filter clear

Filter clear

surged
drippe lines

Filter

Filter

Filter
clear

February

1	Fri	5863 ⁵
2	Sat	5866
3	Sun	5883
4	Mon	5900
5	Tue	5915
6	Wed	5921
7	Thu	5923
8	Fri	5936
9	Sat	5952
10	Sun	5967
11	Mon	5973
12	Tue	5978
13	Wed	5981
14	Thu	5984
15	Fri	5997
16	Sat	6009
17	Sun	6028
18	Mon	6037
19	Tue	6048
20	Wed	6057
21	Thu	6066
22	Fri	6072
23	Sat	6081
24	Sun	6095
25	Mon	6110
26	Tue	6121
27	Wed	6129
28	Thu	6138

FILE 7835

RECEIVED
6 NOV 2001
Auckland Regional Council

Sandspit Motor Camp
1334 Sandspit Road
R.D.2 Warkworth
Ph /Fax 09 4258610

Auckland Regional Council
Private Bag 92-012
Auckland
6.11.01

Permit Number 22315
File Reference 7835

Enclosed are the results of the effluent samples sent to watercare 29.10.01

Meter readings for this period are as follows

1 st June 2001	4352	May discharge	131
1 st July 2001	4405	June discharge	53
1 st Aug 2001	4486	July discharge	81
1 st Sept 2001	4536	Aug discharge	50
1 st Oct 2001	4599	Sept discharge	63
1 st Nov 2001	4744	Oct discharge	145 = $\bar{x}$ 4.7 m ³ /day

The air pump was serviced and veins replaced on 25.10.01 by 4 Ways Ltd. Report enclosed.

McJimray septic tank cleaning services have been contacted to clean out the septic tank at a time convenient to him during November as required by the resort consent (Bi annually) They were last emptied 31.12.1999.

Filter unit on irrigation line was replaced 23.10.01 due to of the cracking of the old filter housing (splash equipment account enclosed)

There have been no mishaps or complaints recorded during this period.

Yours faithfully

Brian Morrison
(Owner / Manager)

Page: 1
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Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP
1334 SANDSPIT RD
RD2 WARKWORTH

Attn: Brian Morrison

Batch Number: 01/20818
Received.....: 29/10/01 13:48

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	29/10/01	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: Low Level by 47mm GF/C	mg/L

Sample No.	01
SS	9.
Enter-mE	12
MPN-faec	140
MPN-Pres	70000
BOD	<2.0

Sampling/Yes:= As per Laboratory Services sampling manual.
Sampling/No := Results are reported on an as received basis.
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Methodology: 20th-1998 edition APHA AWWA unless specified.

Section Head: D. Fitzgerald Date: 5/11/01

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



4 Ways Ltd

Industrial Vacuum Specialists

2/28 Anvil Road, Silverdale

Tel 09-426-9703

Fax 09-426-9704

fourways@voyager.co.nz

Tax Invoice to

Sandspit Motor Camp Ltd.,
1334 Sandspit Road,
RD2,
Warkworth.

Order placed by Brian Morrison.

Date	29.10.01
------	----------

Our Ref.	J4W1830
----------	---------

Your Ref.	Brian
-----------	-------

Invoice No	I4W1860
------------	---------

Qty	Job Description	Unit price	Total
1	Callout to service pump	190.00	190.00
4	524009 carbon vanes	161.19	644.76
2	K2027 filter elements	10.33	20.66
		Nett	\$855.42
		G.S.T	\$106.93

G.S.T. Reg. No. 70 496 232

Gross	\$962.35
-------	----------

Conditions of sale

- 1) Payment due on the 20th of the month following the invoice date.
- 2) Procured items are not returnable without prior consent.
- 3) No goods will be accepted for credit unless returned within 14 days and with our prior consent.
If approved all freight charges must be paid and a handling fee of 15% will be payable
unless the goods are defective or an error was made on our part.
- 4) Goods remain the property of 4 Ways Ltd., until all monies owing are paid in full in respect of the purchase.
- 5) No claims excepted unless notified within 7 days of delivery.



4 Ways Ltd

Industrial Vacuum Specialists

2/28 Anvil Rd, Silverdal

Tel 09-426-970

Fax 09-426-970

fourways@voyager.co.n

Masport



BECKER



ORION

ESAM

GEV-BGS

Pump Performance Report

Customer details

Sandspit Motor Camp Ltd.

Contact

Brian Morrison

Order No

Brian

Location

Water Tank Aeration

Machine

N/A

Date

25.10.01

Job No

J4W1830

Make

Rietschle

Model

DFT 60

Serial No

95 1673685

Rated Vacuum

N/A

Actual Vacuum

N/A

KW

1.5

Rated Pressure

0.55bar

Actual Pressure

0.55bar

Rated Amps

3.16

Min Vane Depth

30mm

Actual Vane Depth

39mm

Actual Amps

2.8

Vane condition

New

Stator condition

Good

Noise level

Normal

Oil level

N/A

Oil condition

N/A

Oil leak

N/A

Ballast filter condition

N/A

Ballast filter type

N/A

Pre-filter condition

N/A

Pre-filter type

N/A

Inlet filter condition

New

Inlet filter type

2 x K2027

Exhaust filter condition

N/A

Exhaust filter type

N/A

Exhaust back pressure

N/A

Coupling condition

N/A

Pump general notes

The carbon vanes and filters were replaced, otherwise your pump is performing normally.

Further work required

Next service due in October 2002.

SPLASH EQUIPMENT (MN) LTD
31 WOODCOCKS ROAD

WARKWORTH

Phone: 07 425-9100 Fax: 07 425-9140

GST No :53-857-078

TAX INVOICE

Date :23/10/2001

Account : 974

Invoice : 52907

Order # :

Int.Ref. :

Sales Fro: CC

Charge to :
SANDSPIT MOTOR CAMP
RD 2
WARKWORTH

Deliver to :
SANDSPIT MOTOR CAMP
RD 2
WARKWORTH

4258610

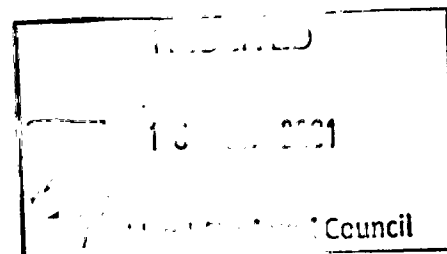
4258610

Code	Description	Quantity	Rate	Total
FI	5F Amiad Filter 1" & flush valve White	1.00	162.22	162.22

TITLE OF GOODS SHALL NOT PASS TO THE BUYER
UNTIL FINAL PAYMENT HAS BEEN RECEIVED BY
SPLASH EQUIPMENT (MN) LTD

GST Exclusive : 162.22
GST : 20.28
Total : 182.50

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) 2551188
Facsimile: (09) 2751550

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

Batch Number: 01/08230
Received....: 03/05/01 15:43

SAMPLING/NO

Sample No	Date	Description	Testcode Identification	Units
01	03/05/01	SANDSPIT MOTOR CAMP DISCHARGE	BOD Biochemical oxygen demand (CBOD5)	mg/L O
			EntermeE Enterococci	/100mL
			MPN-faec Faecal coliforms by MPN	/100mL
			MPN-Pres Presumptive coliforms by MPN	/100mL
			SS Suspended solids: Low Level by 47mm GF/C	mg/L

Sample No.	01
BOD	<2.0
EntermeE	1800
MPN-faec	90
MPN-Pres	1800
SS	8.5

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: 19th-1995, 20th-1998 editions APHA AWWA unless specified.

Section Head: J. Fitzgerald Date: 11/5/01

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

Enclosed:

Effluent discharge test
results for this quarter.

UV. lamp replaced. 27/4/01

Meter readings

1st Mar. 3814

1st April. 4001

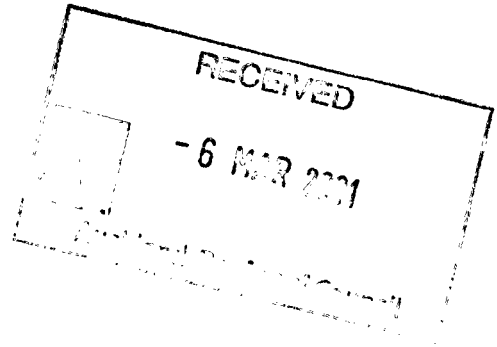
1st May. 4221

Regards Brian M

SANDSPIT MOTOR CAMP.
1334 SANDSPIT RD.
R.D. 2 WARKWORTH.

PERMIT No. 22315
FILE REFERENCE. 7835

AUCK - REGIONAL COUNCIL.
Private Bag 92012
● AUCKLAND.



Please find enclosed ^{daily} meter readings for effluent disposal system at Sandspit Motor Camp. For the months of Dec. Jan. Feb as required by the above permit.

There were no complaints or malfunctions of the plant during this quarter.

● The U.V. lamp was replaced prior to christmas busy period.

Yours faithfully

5 exceedances over the new year period

DECEMBER

JANUARY

FEBRUARY

MARCH

	1 3064 How		
	2 3115 2.1		
	3 3130 25		
	4 3152 27	1 3652 5	1 3614
1 2734	5 3178 26	2 3659 7	2
2	6	3	3
3	7	4	4
4 2752 7	8 3245 24	5 3699 7	5
5 2157 5	9 3267 22	6 3711 5	6
6 2763 6	10 3289 22	7 3719 4	7
7 2768 5	11 3306 17	8 3728 9	8
8 2775 7	12 3326 20	9 3731 3	9
9	13	10	10
10	14	11	11
11 2800 12	15 3374 12	12 3741 3	12
12 2808 4	16 3396 22	13 3749 3	13
13 2817 9	17 3421 25	14 3751 2	14
14 2825 8	18 3446 25	15 3752 1	15
15 2835 10	19 3466 20	16 3758 6	16
16	20	17	17
17	21	18	18
18 2870 10	22 3515 12	19 3777 4	19
19 2875 5	23 3530 15	20 3783 6	20
20 2884 9	24 3544 14	21 3785 2	21
21 2888 4	25 3558 14	22 3786 1	22
22 2893 5	26 3573 15	23 3789 3	23
23	27	24	24
24	28	25	25
25 2927 Christmas Day 15	29 3588 SAMPLE 2	26 3805 2	26
26 2938 Boxing Day 11	30 3641 4	27 3808 3	27
27 2956 20	31 3647 6	28 3812 4	28
28 2990 24			29
29 3005 25			30
30			31
31			

9/2/01
Sandepit Motor Camp
1334 Sandepit Rd
R. D 2
WARRKWOOTH
4258610

Permit No. 22315

Please find enclosed test results
for sewage discharge

Note. SS — 2.5
Required level : 20.

There were no complaints or
emergencies during this quarter.

Yours faithfully

Gina Morra

34140

12 FEB 2002

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) 2551188

Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 01/01702

Received.....: 30/01/01 13:53

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	30/01/01	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: Low Level by 47mm GF/C	mg/L

Sample No. 01

BOD <6.6
Enter-mE 10100
MPN-faec 30000
MPN-Pres 130000
SS 2.5

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

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

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Methodology: 19th-1995, 20th-1998 editions APHA AWWA unless specified.

Section Head:

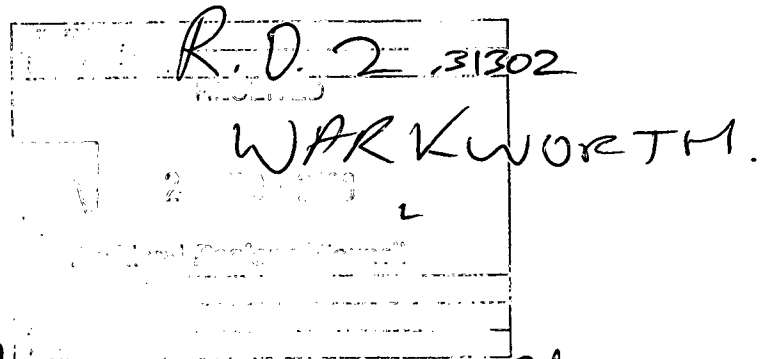
J. Fitzgerald

Date:

5/2/07

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

Sandspit Motor Camp.
1334 Sandspit Rd.



A.R.C.

Private Bag 92,012
AUCKLAND.

ATTN. Stuart Chapman

Please find enclosed WaterCares test results for our sewerage discharge sample taken 6/11/00 in compliance with our consent.

There have been no malfunctions during this quarter. The receiving tanks were desludged in September and the air pump was serviced 15/11/00.

Yours faithfully
Brian Morrison

NB S.S. 7.7.

(Required S.S. Less than 20.)

ENTERED

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) 2551188

Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 00/14203

SAMPLING/NO

Received.....: 06/11/00 10:45

Sample No	Date	Description	Testcode	Identification	Units
01	06/11/00	SANDSPIT MOTOR CAMP DISCHARGE	BOD	Biochemical oxygen demand (CBOD5)	mg/L O
			EntermeE	Enterococci	/100mL
			MPN-faec	Faecal coliforms by MPN	/100mL
			MPN-Pres	Presumptive coliforms by MPN	/100mL
			SS	Suspended solids: Low Level by 47mm GF/C	mg/L

Sample No.	BOD	EntermeE	MPN-faec	MPN-Pres	SS
01	<3.3	<100	80	5000	7.7

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 19th-1995, 20th-1998 editions APHA AWWA unless specified.

Section Head: _____

Date: 14/10/2000

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

17/5/00

Sandspit Motor Camp
1334 Sandspit Rd
R.D. 2.

WARRIMOO

Auckland Regional Council.
Private Bag 92012.
Auckland.

Attn. Stuart Chapman

Re Discharge permit No. Cg/7835

Enclosed are watercare test results for this quarter. As you can see the S.S. is

17 mg/L which compares with the samples taken earlier. Why your sample taken on 6/3/00 showed a S.S. of 80 is a mystery.

I took this sample from the same place as you took yours. Also why should it show such a low coliform count when the S.S. was so high? Is it normal for readings to fluctuate like this?

Regards

Brian Morrison

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) 2551188

Facsimile: (09) 2751550

SANDSPIT MOTOR CAMP

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 00/05146

SAMPLING/NO

Received.....: 01/05/00 13:23

Sample No	Date	Description	Testcode Identification	Units
01	01/05/00	SANDSPIT MOTOR CAMP DISCHARGE	Enter-mE Enterococci	/100mL
			MPN-faec Faecal coliforms by MPN	/100mL
			MPN-Pres Presumptive coliforms by MPN	/100mL
			SS Suspended solids: Low Level by 47mm GF/C mg/L	

Sample No. 01

Enter-mE 113000

MPN-faec 5p00p00 *

MPN-Pres 24p00p00

SS 17. ✓

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: 11/5/00

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

Page: 1
Distribution List
Copy to 1: Kimberly Wills
2: File/13

AUCKLAND REGIONAL COUNCIL
RESOURCE QUALITY
PRIVATE BAG 92-012
AUCKLAND 1
ATTENTION: KIMBERLY WILL



Watercare Services Ltd
Laboratory Services Section
Wastewater Treatment Plant
Island Road
Mangere, Auckland, New Zealand
Phone: (09) 2551188
Facsimile: (09) 2751550

Batch Number: 00/02949 Routine Computer Schedule Sampling/No
Received.....: 06/03/00 16:59

Sample No	Date	Description	Testcode	Identification	Units
01	06/03/00	Sandspit Motor Camp Final D/C	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: Low Level by 47mm GF/C	mg/L

Sample No.	01
BOD	14.0
Enter-mE	27 ✓
MPN-faec	7 ✓
MPN-Pres	300
SS	(180) ← exceeded (>20) 35

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: 13/3/00

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

SAMPLING DIAGRAM/SITE PLAN

SANDSPIT MOTOR CAMP

FILE No:	
UNIQUE No:	22243
RECEIVED	
6 MAR 2000	
Auckland Regional Council	
ATTENTION:	
INFORMATION:	
ACTIONED:	

1334 SANDSPIT RD.

WARKWORTH.

2/3/00

A.R.C.

Private Bag 920
AUCKLAND.

ATTN. JULIAN ROBERTS.

RE

PERMIT NO. 22315

B+U MORRISON.

FILE REFERENCE 7835.

Dear Julia - As required in the conditions of our discharge permit I enclose flow records for the period 1 December 99 to 29 February 2000.

Our maximum daily allowance of 25 cub meters was exceeded twice, on the 1st Jan and 9th Jan both days recording 28 cub meters. However average daily flow for those weeks were 18.86 and 20.71 respectively. I enclose a weekly and monthly analysis of flows for your perusal.

There were no complaints from the public or camping clients through this period.

I responded to an alarm signal on 6/12/99. The strainer on the water meter was blocked with totara leaves etc. restricting flow. There was a small discharge of treated effluent from the lower tank while cleaning was in progress. Regular checking + cleaning of the strainer has been undertaken since then.

The air pump was serviced and ucins replaced on 23/12/99.

The septic tank was emptied on 31/12/99 and no problems were experienced with the 42K bug.

Yours faithfully

Brian Morrison

Per week,

per day

Week ending 12/12

41

5.86

" " 19/12

32

4.57

" " 26/12

51

7.29

" " 2/1

132

18.86

" " 9/1

145

20.71

" " 16/1

118

16.86

" " 23/1

104

14.86

" " 30/1

89

12.71

" " 5/2

50

7.14

" " 13/2

84

12.00

" " 20/2

51

7.29

" " 27/2

38

5.43

✓ should be read daily!

Dec. total

236

7.87 per day

Jan total

513

16.55 per day

Feb total

218

7.52 per day

SEP	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
		① 271				
		②			① 1184	
		③	① 401		② 1170	①
		④	② 408		③ 1174	②
	① 146	⑤	③ 411		④ 1178	③
	②	⑥	④	①	⑤	④
	③	⑦	⑤	②	⑥	⑤
	④	⑧	⑥ 5425	③	⑦ 1212	⑥
	⑤	⑨	⑦ 432	④	⑧ 1321	⑦
	⑥	⑩	⑧ 5437	⑤	⑨ 1231	⑧
	⑦	⑪	⑨ 443	⑥	⑩ 1237	⑨
	⑧	⑫	⑩ 450	⑦	⑪ 1241	⑩
	⑨	⑬	⑪	⑧	⑫	⑪
	⑩	⑭	⑫	⑨	⑬	⑫
	⑪	⑮	⑬ 4465	⑩ 28649	⑭ 1281	⑬
	⑫	⑯	⑭ 4469	⑪ 18867	⑮ 1286	⑭
	⑬	⑰	⑮ 474	⑫ 1481	⑯ 1291	⑮
	⑭	⑱	⑯ 478	⑬ 22903	⑰ 1297	⑯
	⑮	⑲	⑰ 481	⑭ 10913	⑱ 1308	⑰
	⑯	⑳	⑱	⑮	⑲	⑱
	⑰	㉑	㉑	⑯	⑲	⑱
	⑱	㉒	㉒ 501	⑰ 956	㉑ 1323	㉑
	㉑	㉓	㉓ 506	⑱ 968	㉒ 1328	㉒
	㉒	㉔	㉔ 514	⑲ 981	㉓ 1332	㉓
	㉓	㉕	㉕ 521	⑳ 996	㉔ 1336	㉔
	㉔	㉖	㉖ 528	㉑ 1011	㉕ 1340	㉕
	㉕	㉗	㉗	㉒	㉖	㉖
	㉖	㉘	㉘	㉓	㉗	㉗
	㉗	㉙	㉙ 557	㉔ 1658	㉘ 1363	㉘
	㉘	㉚	㉚ 571	㉕ 7071	㉙ 1368	㉙
	㉙		㉛ 591	㉖ 7083		㉛
	㉚		㉜ 613	㉗ 7096		㉜
	㉛		㉝ 637	㉘ 7101		㉝
	㉜			㉙		
	㉝			㉚		
	㉞			㉛		
	㉟			㉜		
	㊱			㉝		
	㊲			㉞		

Permit NO 22315
FILE REFERENCE 7835

Page: 1
Distribution List
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FILE NO:	
UNIQUE No:	21628
RECEIVED	
21 FEB 2000	
Auckland Regional Council	
ATTENTION:	
INFORMATION:	
ACTIONED:	

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: 00/01229
Received.....: 01/02/00 12:57

SAMPLING/NO

Sample No	Date	Description	Testcode	Identification	Units
01	01/02/00	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: Low Level by 47mm GF/C	mg/L

Sample No. 01

BOD 9.1
Enter-mE 400
MPN-faec 80
MPN-Pres 230
SS 19.

} much better
✓

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. Filzger Date: 11 / 02 / 2000

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

JAN SAMPLING

FILE No:	17899
UNIQUE No:	17899
RECEIVED	
18 NOV 1999	
Auckland Regional Council	
ATTENTION:	Water
INFORMATION:	
ACTIONED:	

Sandspit Motor Camp
 1334 Sandspit Rd.
 R.D. 2
 WARKWORTH.
 14 / 11 / 99

Manager.

AUCKLAND REGIONAL COUNCIL.

Box 92012.

AUCKLAND.

Re DISCHARGE PERMIT 22315
 FILE REFERENCE 7835

Please find enclosed copy of test sample
 results taken 1 / 11 / 99.

Discharge meter reading was 271 cub m.
 ie 125 cub m for the month of Oct.
 ie 4 cub m / day.

Yours faithfully



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
1334 SANDSPIT RD
RD2 WARKWORTH
ATTENTION: BRIAN MORRISON

Batch Number: 99/12756
Received.....: 01/11/99 09:57

SAMPLING/NO

Sample No	Date	Description	Testcode Identification	Units
01	01/11/99	SANDSPIT MOTOR CAMP DISCHARGE	Enter-mE Enterococci	/100mL
			MPN-faec Faecal coliforms by MPN	/100mL
			MPN-Pres Presumptive coliforms by MPN	/100mL
			SS Suspended solids: Low Level by 47mm GF/C mg/L	

Sample No. 01

Enter-mE	26000	} high	no AOD
MPN-faec	160000		
MPN-Pres	160000		
SS	7.5		

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: 11/11/99

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

FILE No:	
UNIQUE No:	12000
RECEIVED	
	20 AUG 1999
Auckland Regional Council	
ATTENTION:	ROBERTS, J
INFORMATION:	
ACTIONED:	

SANDSPIT MOTOR CAMP.
1334 SANDSPIT ROAD
R. D 2
WARKWORTH
18/8/99

Manager.
AUCKLAND REGIONAL COUNCIL.
Box 92012.
AUCKLAND.

RE DISCHARGE PERMIT 22315.
FILE REFERENCE 7835

Please find enclosed copy of test sample results. taken. 2/8/99.

Discharge water meter reading taken on.
1/8/99 was 26 cub.m. (meter was
installed 13/7/99)

Yours faithfully,
Brian Morrison

for BRIAN + VANESSA MORRISON
FAMILY TRUST.

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 Q331

1334 SANDSPIT RD

RD2 WARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 99/09059

SAMPLING/NO

Received.....: 02/08/99 10:37

Sample No	Date	Description	Testcode	Identification	Units
01	02/08/99	SANDSPIT MOTOR CAMP DISCHARGE	Enter-mE	Enterococci	/100ml
			MPN-faec	Faecal coliforms by MPN	/100ml
			MPN-Pres	Presumptive coliforms by MPN	/100ml
			SS	Suspended solids: Low Level by 47mm GF/C	mg/L

Sample No.	Enter-mE	MPN-faec	MPN-Pres	SS
01	73	300	800	18.

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: Brian Morrison Date: 16/8/99

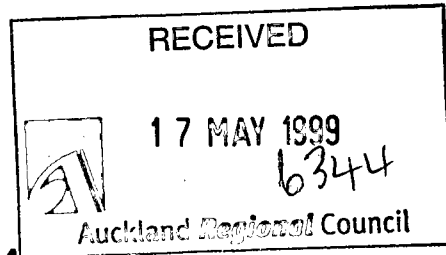
----- END OF REPORT : 1 PAGE -----

NO 150.

Fax to. ARC. 64 9 366 2155

ATTN. JULIAN ROBERTS.

From SANDSPIT MOTOR CAMP.



09 425 8610

Dear Julian.

I apologise for delay in responding to your query but we have been in Melbourne to attend a family bereavement.

The readings used to calculate water usage (appendix C in the engineers report) were from water use records sheets taken between Sept 97 and Aug 98.

I enclose a copy of the transfer when we bought the camp. Water right number is 896920 Permit no. AG6920 and is in the name of either SANDSPIT MOTOR CAMP or Brian Morrison + Vanessa Morrison.

Enclosed also are ^{copies of} the appropriate record sheets plus the last two quarters taken since then.

Sept → Nov '98 — 417 (418)
and Dec → Feb '99 — 1085 (1116)

The water right owned by the Rodney Council will be the one in the playground across the road from the camp which supplies the playground and wharf buildings

yours faithfully.

Brian Morrison



AUCKLAND REGIONAL COUNCIL

**TRANSFER OF RESOURCE CONSENT
PURSUANT TO THE RESOURCE MANAGEMENT ACT 1991**

WATER PERMIT NO. 896920

The above permit is deemed to be cancelled in respect of the interest transferred from SANDSPIT MOTOR CAMP TO BRIAN MORRISON & VANESSA MORRISON (notice of which was received on 31 March 1995) and the interest transferred is deemed to be a new permit on the same conditions as the original permit, a copy of which is attached.

**THIS ACKNOWLEDGEMENT OF TRANSFER IS SIGNED FOR AND ON BEHALF OF THE
AUCKLAND REGIONAL COUNCIL**

L Burnett
Group Manager, Divisional Services
ENVIRONMENT AND PLANNING DIVISION

Per:

5. AUCKLAND REGIONAL COUNCIL - WATER USE MONITORING FORM

Please return to: Pene Burns, Water Resources, ARC, Private Bag 92012, Auckland

PERMIT HOLDER:	MORRISON BTU	PERMIT NO:	AG 6720
Fill in the last reading for Aug:	5307 (x)	Date:	

	SEPTEMBER 1997	OCTOBER 1997	NOVEMBER 1997
	Meter Reading (m ³) *	Meter Reading (m ³) *	Meter Reading (m ³) *
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17		5493	
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			5725
29			
30			
31			

To work out the total Water Use for this Quarter:

Last reading for November - Last reading for August (x) =

THIS FORM IS DUE BY:

DECEMBER 12, 1997

Groundwater Users:

Please record at least 1 reading per week

Surface Water Users:

Please record 1 reading every day water is used.

Please record actual meter readings and not calculated water use.

* Decimal places (i.e., parts of a m³) are indicated on your meter by different coloured figures and/or dials.

water^{use} Record Sheet



AG6920 MORRISON B & V
NORTHERN GROUNDWATER
SANDSPIT RD, SANDSPIT.

Record the last reading and date from the last quarter and see over to work out your water use at the end of this quarter.

Meter Reading: (m³) 5725 Date of Reading: 28 Nov

	DECEMBER 1997	JANUARY 1998	FEBRUARY 1998
	Meter Reading (m ³) †	Meter Reading (m ³) †	Meter Reading (m ³) †
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

* † Ann revoran of form

This form is due to be returned to the ARC, by: FRIDAY, MARCH 13, 1998

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is our concern

Water use Record Sheet

MORRISON B & V

C/- SANDSPIT MOTOR CAMP

RD 2

WARKWORTH,

AG/6920

NORTHERN GROUNDWATER

SANDSPIT RD, SANDSPIT.

Record the last reading and date from the last quarter and see over to work out your water use at the end of this quarter.

Meter Reading: (a*) 69641 Date of Reading: 24 2 98

	MARCH 1998		APRIL 1998		MAY 1998	
	Meter Reading (m ³)	†	Meter Reading (m ³)	†	Meter Reading (m ³)	†
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19			7243			
20						
21						
22						
23					7356	
24						
25						
26						
27						
28						
29	7162					
30						
31					(b*)	

* † see reverse of form

This form is to be returned to the Auckland Regional Council by:

MONDAY JUNE 15, 1998

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is our concern

Water^{use} Record Sheet



MORRISON B & V

CI- SANDSPIT MOTOR CAMP

RD 2

WARKWORTH

AG6920

SANDSPIT RD, SANDSPIT.

Record the last reading and date from the last quarter and see over to work out your water use at the end of the quarter.

Meter Reading: (m³) 7358 Date of Reading:

	JUNE 1998		JULY 1998		AUGUST 1998	
	Meter Reading (m ³)	†	Meter Reading (m ³)	†	Meter Reading (m ³)	†
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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25						
26						
27						
28						
29						
30						
31						

† † see reverse of form

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15 September 1998.

I.S.Ref: I:\wr\monitor\mallout\jin98\mainform.doc

your
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water use Record Sheet



MORRISON B & V
C/- SANDSPIT MOTOR CAMP
RD 2
WARKWORTH

AG 8920

SANDSPIT RD, SANDSPIT,
NORTH EAST GROUNDWATER

Record the meter reading from the 1st of June (a*) and the last reading for the last quarter (b*) below. Following the instructions over the page use these readings to work out your water use.

1st June 1998 = 7626 m³ 30th August 1998 (b*) = 7603 m³

	SEPTEMBER 1998	OCTOBER 1998	NOVEMBER 1998
	Meter Reading (m ³) ↑	Meter Reading (m ³) ↑	Meter Reading (m ³) ↑
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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25			
26			
27			
28			
29			
30			
31			

Handwritten notes in the table:
- In row 10, column SEPTEMBER 1998: 7626
- In row 20, column OCTOBER 1998: 7808
- In row 28, column NOVEMBER 1998: 8020

This form is to be returned to the Auckland Regional Council by:
15 December 1998.

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is our concern

Water use Record Sheet

MORRISON B & V
C/- SANDSPIT MOTOR CAMP
RD 2
WARKWORTH 1241

AG6920

SANDSPIT RD, SANDSPIT,
NORTH EAST GROUNDWATER

Record the meter reading from the 1st of June (a*) and the last reading for the last quarter (b*) below.
Following the instructions over the page use these readings to work out your water use.

1st June 1998 = _____ m³ 30th November 1998 (b*) = _____ m³

	DECEMBER 1998		JANUARY 1999		FEBRUARY 1999	
	Meter Reading (m ³)	†	Meter Reading (m ³)	†	Meter Reading (m ³)	†
1						
2					897.3	
3						
4			843.5			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19			372.5			
20	81.29					
21						
22						
23						
24						
25						
26						
27					91.05	
28						
29						
30						
31						

This form is to be returned to the Auckland Regional Council by:
15 March 1999.

your  **environment**
is our concern

Sandspit Motor Camp
1334 Sandspit Rd.
R.D. 2
WARKWORTH

Julia Roberts
A.R.C.

Private Bag 92-012
AUCKLAND.

FILE No:	
UNIQUE No:	U361
RECEIVED	
16 APR 1999	
Auckland Regional Council	

● Dear Julia

Enclosed are East Water Samples as requested. Note an improvement in suspended Solids, B.O.D. and Enter. ME, however coliform counts are higher. The camp was at maximum capacity over the ^{whole} Easter period - only 1 or 2 campsites empty over the 4 days. I have enclosed the February results for comparison.

● Enclosed also is analysis of the soil done by Colin Asby at the end of March as requested.

Yours faithfully

Brian Morrison

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: 99/04080

SAMPLING/NO

Received....: 03/04/99 14:29

Sample No	Date	Description	Testcode	Identification	Units
01	03/04/99	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: Low Level by 47mm GF/C	mg/L

Sample No. 01

BOD 11.0
Enter-mE 5200
MPN-faec 300000
MPN-Pres 300000
SS 14.

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: 13/ 4/ 99

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

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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: 99/04069

SAMPLING/NO

Received.....: 06/04/99 12:45

Sample No	Date	Description	Testcode	Identification	Units
01	06/04/99	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: Low Level by 47mm GF/C	mg/L

Sample No. 01

BOD 18.0

Enter-mE 1900

MPN-faec 1600000

MPN-Pres 1600000

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: 13 / 4 / 99

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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 MARKWORTH

ATTENTION: BRIAN MORRISON

Batch Number: 99/01185

SAMPLING/NO

Received.....: 02/02/99 12:54

Sample No	Date	Description	Testcode	Identification	Units
01	02/02/99	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 9000
MPN-faec >160000
MPN-Pres >160000
SS 29.

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:

E. Fitzgerald

Date: 8/2/99

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



Colin Ashby Consulting.

Structural, Civil, & Geotechnical Engineering.

PO Box 124 Warkworth
Rodney District. N.Z.

Ph. 09 425 94 22 , Fax 09 425 94 31
Mobile 025 94 96 94

Job No 1939A

ca/lc

1 April 1999

Mr Julian Roberts
Pollution Control Officer
Auckland Regional Council
Private Bag 92-012
AUCKLAND

Dear Julian

Re: SANDSPIT MOTOR CAMP ADDITIONAL INFORMATION DISCHARGE PERMIT 7835

I write to advise that I have inspected the site on Tuesday the 30 March 1999 and report that the Bio-tube filter has now been installed and is working properly. The revamping of the plumbing to the aeration tanks has also been undertaken and completed. Visually and smell wise there is a vast improvement in the quality of effluent been produced. The Camp Owner Mr Brian Morrison intends carrying out further testing and sampling over the Easter period, when the camp is heavily loaded.

With respect to the dripper irrigation system, I have measured the site and confirm that the area irrigated is some 4,000 sq metres.

Hand augers over this site have revealed top soil depth from 300 - 400mm. The topsoil is a friable sandy-silty organically material with very good moisture absorption characteristics and is ideal for the intended use. The underlying material is residential Waitemata Series clay to a depth of approximately 0.9m, overlying a reddish brown clayey silt to a depth of approximately 1.3m before sandstone was encountered, which was too hard to auger at 1.5m depth. All the soils were dryish and well below optimum moisture content. The disposal field site is north facing at a slope of approximately 1 in 6, with good wind and sun exposure and is ideal for use as an effluent disposal field. The area is not a public garden.

The present scheme of moving the dripper lines and laying them out on the surface appears to work very well. There is no evidence of ponding or any problems occurring and the soil appears well able to absorb the loading rates imposed.

I would maintain that with this setup remote from the public, the surface application of effluent would be superior to sub-surface irrigation for the following reasons:

- 1 The effluent is exposed to wind, air, and sunlight including ultra violet light. It is in very small drip doses, enabling the natural elements to act upon it effectively.
- 2 The dripper lines at present run down the hill, which in the longer term is superior to ensure that lines do not silt up. As from time to time the end fitting can be released and the line purged, with any sediment gathering at the bottom of the line.
- 3 In an underground situation, the lines would need to run parallel to the contour, so as the mole ploughed holes do not form a conduit in which effluent would concentrate and run down to the bottom of the hill. In laying sub surface lines horizontally around the contour, it is a certainty that the line will silt and clog in due course, unless highly prefiltered and regularly purged.

Treatment via Bacterial reduction in the soil is part of process and information from ON-SITE NewZ Issue 97/2 April 1997 suggests that after effluent has passed through 300mm of unsaturated soil, significant removal of bacteria in moderate draining soils will have occurred.

Surface irrigation systems are nothing new, there are many such with sprinkler sprayed irrigation systems within pine forests. This system is a little different in that drip irrigation line is laid out on the ground, which is not going to create the spray drift problems usually associated with spray irrigation.

I am satisfied that the system as setup does work very well and that no pollution of the ground water is occurring or is likely to occur in this instance. It is noted that groundwater was not encountered within the 1.5m deep hand auger hole. From the lie of the country and the dryness of the materials encountered, I would expect ground water level some 6m or more below the surface.

The topsoil was of a sandy friable nature and I would anticipate would easily take a loading rate, particularly if applied via surface irrigation, of in excess of 25mm per sq. metre per day.

It should further be noted that the maximum discharge volume would only be achieved during summer peak, when evapo-transpiration rates are high.

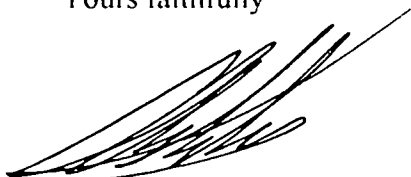
The whole intent of the Resource Management Act and the Building Act was to get away from prescriptive solutions to problems and to permit some innovation in design with a view to end result.

Conclusion

I am satisfied that the setup as it presently is would meet the requirements of the Resource Management Act and is working and will continue to work well.

I am satisfied that the above ground drip irrigation system as currently constructed and operated is fit for purpose and will provide a good end result solution.

Yours faithfully



Colin W. Ashby
MIPENZ. BE. NZCE. Reg. Eng.