



AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106
P.O. Box 1510
Tempe, Arizona 85281
Phone: (480) 921-8044 • FAX: (480) 921-0049

Lic. No. AZ0003

LABORATORY REPORT

Client: MicroSepTec Inc.
7373 N. Scottsdale Road
Suite C-146
Scottsdale, AZ 85253
Attn: Jim Widger

Date Submitted: 12/29/00
Date Reported: 01/15/01

RESULTS

Client ID: Fishburn - Tank
ACT Lab No.: BG10836

Sample Type: Aqueous
Sample Time: 12/29/00 13:30

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Biochemical Oxygen Demand	12/29/00	1/3/01	405.1	<5.	mg/L
Chlorine, Total	12/29/00	12/29/00	330.4	<0.05	mg/L
Nitrite - N	12/29/00	12/29/00	SM4500NO2 B	0.32	mg/L as N
Total Kjeldahl Nitrogen	1/10/01	1/10/01	351.3	2.49	mg/L as N
Fecal Coliform - MF	12/29/00	12/30/00	SM 9222 D	520	cfu/100mL
pH	12/29/00	12/29/00	150.1	8.0	SU
Total Suspended Solids	1/3/01	1/3/01	160.2	6.	mg/L

Client ID: Fishburn - Field
ACT Lab No.: BG10837

Sample Type: Aqueous
Sample Time: 12/29/00 13:40

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Biochemical Oxygen Demand	12/29/00	1/3/01	405.1	<5.	mg/L
Fecal Coliform - MF	12/29/00	12/30/00	SM 9222 D	740	cfu/100mL
Total Suspended Solids	1/2/01	1/2/01	160.2	5.	mg/L



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Lic. No. AZ0003

LABORATORY REPORT

Client: MicroSepTec Inc.
7373 N. Scottsdale Road
Suite C-146
Scottsdale, AZ 85253
Attn: Jim Widger

Date Submitted: 2/28/01
Date Reported: 03/15/01

RESULTS

Client ID: Vance - Tank
ACT Lab No.: BH01709

Sample Type: Aqueous
Sample Time: 02/28/01 12:30

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Biochemical Oxygen Demand	2/28/01	3/5/01	405.1	14.	mg/L
Chlorine, Total	2/28/01	2/28/01	330.4	0.18	mg/L
Nitrate + Nitrite - N	3/5/01	3/5/01	SM4500NO3 E	1.90	mg/L as N
Total Kjeldahl Nitrogen	3/8/01	3/8/01	351.3	5.2	mg/L as N
Fecal Coliform - MF	2/28/01	3/1/01	SM 9222 D	>120 *	cfu/100mL
pH	2/28/01	2/28/01	150.1	7.5	SU
Total Suspended Solids	2/28/01	2/28/01	160.2	29.	mg/L

* Estimated 524 cfu/100 mL.

Client ID: Fishburn - Tank
ACT Lab No.: BH01710

Sample Type: Aqueous
Sample Time: 02/28/01 12:50

<u>Parameter</u>	<u>Analysis Date</u>		<u>Method No.</u>	<u>Result</u>	<u>Unit</u>
	<u>Start</u>	<u>End</u>			
Biochemical Oxygen Demand	2/28/01	3/5/01	405.1	<2.	mg/L
Chlorine, Total	2/28/01	2/28/01	330.4	0.32	mg/L
Nitrate + Nitrite - N	3/5/01	3/5/01	SM4500NO3 E	3.89	mg/L as N
Total Kjeldahl Nitrogen	3/9/01	3/9/01	351.3	1.12	mg/L as N
Fecal Coliform - MF	2/28/01	3/1/01	SM 9222 D	18	cfu/100mL
pH	2/28/01	2/28/01	150.1	8.0	SU
Total Suspended Solids	3/1/01	3/1/01	160.2	3.	mg/L

Joseph L. Link
410-750-1362
P. 3

ENVIRO-CHEM LABORATORIES, INC.



100 Lakefront Drive, Hunt Valley, Maryland 21030

(410) 785-9739

FINAL REPORT OF ANALYSES

Envirotec
P.O. Box 6515
Columbia, MD 21045-

PROJECT NAME: Harbin
REPORT DATE: 09/29/2001

SAMPLE NUMBER- 20454 SAMPLE ID- Effluent Chamber
DATE SAMPLED- 09/12/01
DATE RECEIVED- 09/12/01 SAMPLER- J. Link
TIME RECEIVED- 1700 DELIVERED BY- J. Link

SAMPLE MATRIX- WA
TIME SAMPLED- 1330
RECEIVED BY- SES

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	BY	RESULT UNITS	DET. LIMIT
BIOCHEM. OXY. DEMAND	EPA 405.1	09/13/01	AAA	13.3 mg/L	5.0
KJELDAHL NITROGEN	EPA 351.3	09/28/01	SES	2.2 mg/L as N	0.2
NITRATE BY ION CHROMATOGRAPHY	EPA 300.0	09/13/01	SES	1.6 mg/L as N	0.2
TOTAL SUSP. SOLIDS	EPA 160.2	09/18/01	JDH	7.0 mg/L	1.0

LABORATORY DIRECTOR

Environmental Engineering Laboratory
 3538 Hancock Street
 San Diego, CA 92110
 (619) 298-6131

ELAP certificate number 1738

MICROSEPTEC, INC.
 23112 ALCALDE DR/STE.C
 LAGUNA HILLS, CA
 92653

Customer # 4317 Sample # 11010652
 Reference : EFF/AVACADO LN
 Sampled : 10/26/01 12:00PM Date Started : 10/26/01
 Received : 10/26/01 02:45PM P.O. # Date Completed: 11/13/01
 Comment : ATTN: TINA EDVARDSSSEN

Test Run:	Result:	MCL	DL	Method:
Solids, Suspended	2.5 mg/L		1.0	SM2540D
Nitrogen, Kjeldahl	3.1 mg/L		0.10	SM4500C
Nitrogen, Nitrate	5.54 mg/L		0.04	SM4500H
Additional Test	CBOD 7.1 mg/L			

ND = None Detected DL = Detection Limit MCL = Max Contaminant Levels

Robert L. Chambers
 Reported by Robert L. Chambers M.S.

Michael M. Chambers M.S., P.E.

Michael Harris PhD

11/14/01
 Date

LOCATION:619 298 6131

RX TIME 11/14 '01 11:42

Environmental Engineering Laboratory
 3538 Hancock Street
 San Diego, CA 92110
 (619) 298-6131

ELAP certificate number 1738

MICROSEPTEC, INC.
 23112 ALCALDE DR/STE.C
 LAGUNA HILLS, CA
 92653

Customer # 4317 Sample # 11010651
 Reference : EFFLUENT/STORM
 Sampled : 10/26/01 10:15AM Date Started : 10/26/01
 Received : 10/26/01 02:45PM P.O. # Date Completed: 11/13/01
 Comment : ATTN: TINA EDVARDSSEN FAX:949-855-3515

Test Run:	Result:	MCL	DL	Method:
Solids, Suspended	5.8 mg/L		1.0	SM2540D
Nitrogen, Kjeldahl	1.3 mg/L		0.10	SM4500C
Nitrogen, Nitrate	9.08 mg/L		0.04	SM4500H
Additional Test	CBOD 8.1 mg/L			

ND - None Detected DL - Detection Limit MCL - Max Contaminant Levels

Robert L. Chambers

Reported by Robert L. Chambers M.S.

Michael M. Chambers M.S., P.E.

Michael Harris PhD

11/14/01
 Date

LOCATION:619 298 6131

RX TIME 11/14 '01 11:42

Environmental Engineering Laboratory
 3538 Hancock Street
 San Diego, CA 92110
 (619) 298-6131

ELAP certificate number 1738

MICROSEPTEC, INC.
 23112 ALCALDE DR/STE.C
 LAGUNA HILLS, CA
 92653

Comment : ATTN: TINA EDVARDSSSEN

Sampled : 10/26/01 : M
 Received : 10/26/01 02:45 PM

		Coliform, Fecal		
=====		=====	=====	=====
EFFLUENT/STORM/10:15				
11010649		5000	---	---
+	+	+	+	+
EFF/AVACADO LN/12:00				
11010650		1400	---	---
+	+	+	+	+

Coliform results are in MPN/100 ml using Multiple Tube Fermentation

ND = None Detected

Robert L. Chambers

Reported by Robert L. Chambers M.S.

Michael M. Chambers M.S., P.E.

Michael Harris PhD

11/01/01
Date

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # M270-21

Date: 10/09/01

MicroSeptec
26601 Cabot Rd.
Laguna Hills

CA 92653

Project: Quarterly Sampling-7406 W.Carmelo
Ave.Tracy,CA
PO#


Date Rec'd: 9/27/01
Date Started: 9/27/01
Date Completed: 10/03/01

Date Sampled: 9/27/01
Time: 1:00pm
Sampler: R Azevedo (Geo)

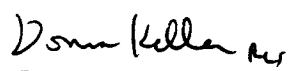
Sample ID: Sample Port with Pump Running

Lab ID: M309574

Method	RL	Analyte	Results	Units
160.2	10	TSS (Nonfilterable Residue)	ND	mg/L
160.1	10	TDS (Filterable Residue)	850	mg/L
351.3	1.0	Total Kjeldahl Nitrogen-N	2.4	mg/L
200.7	1.0	Sodium	162	mg/L
300.0	1.0	Nitrate (NO3)	3.6	mg/L


Ramiro Salgado
Chemist

Certification # 1157


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # M270-21

Date: 10/04/01

MicroSeptec
26601 Cabot Rd.
Laguna Hills

CA 92653

Project: Quarterly Sampling-7406 W.Carmelo
Ave.Tracy,CA
PO#


Date Rec'd: 9/27/01
Date Started: 9/27/01
Date Completed: 10/02/01

Date Sampled: 9/27/01
Time: 1:00pm
Sampler: R Azevedo (Geo)

Sample ID: Sample Port with Pump Running

Lab ID: M309574

Method	RL	Analyte	Results	Units
SM5210B	2.0	cBOD	36	mg/L


Ramiro Salgado
Chemist

Certification # 1157

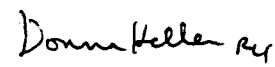

Donna Keller
Laboratory Director

Table 4. Measured concentrations of effluent wastewater constituents and average removal rates in percent from on-site residential wastewater treatment study. Samples collected from chlorination tank. (5/21/99-7/30/99)

Constituent	Units	Average Eff. Concentration [N=31]	Std. dev.	Average Removal %
Biochemical Oxygen Demand	mg/L	5.7	3.1	97.3
Chemical Oxygen Demand	mg/L	54	21	92.6
Total Organic Carbon	mg/L	18	7.6	85.1
Total Suspended Solids	mg/L	5.9	4.1	97.8
Total Dissolved Solids	mg/L	543	143	-
Total Kjeldahl Nitrogen	mg/L as N	7.0 ¹⁾	4.6 ¹⁾	83.7
Total Inorganic Nitrogen ²⁾	mg/L as N	2.2	1.5	89.6
Ammonia	mg/L as N	0.1	0.1	-
Nitrate	mg/L as N	2.1	1.5	-
Reactive Phosphorus	mg/L	1.3	0.6	89.2
Total Phosphorus	mg/L	2.0	0.7	89.5
Fecal Coliform ³⁾	CFU/100 mL	<2	0.0	-
Total Coliform ³⁾	CFU/100 mL	<2	0.0	-
Total Chlorine ³⁾	mg/L	12	20	-
Free Chlorine ³⁾	mg/L	9	18	-
Turbidity	NTU	5.1	4.6	-
Conductivity	µmho/cm	599	120	-
pH	-----	8.0	0.3	-
Temperature	°C	17.0	3.9	-

1) N (number of samples) = 24.

2) Total Inorganic Nitrogen here defined as NH₃-N + NO₃-N.

3) Results reflect disinfection after modifications were carried out on the through-flow chlorinator. After modification all Total and Fecal Coliform counts were less than or equal to 2 CFU/100 mL.

Analysis Report



CANTEST LTD.

Professional
Analytical
Services

REPORT ON: Analysis of Water Samples

REPORTED TO: NovaTec Consultants
224 West 8th Avenue
Vancouver, B.C.
V5Y 1N5

4605 Canada Way
Burnaby, B.C.
V5G 1K5

FAX: 604 731 2386

TEL: 604 734 7276

1 800 665 8586

Att'n: Troy Vassos

CHAIN OF CUSTODY: 26184
PROJECT NAME: Microseptic
PROJECT NUMBER: 1576-01

NUMBER OF SAMPLES: 2

REPORT DATE: December 1, 1999

DATE SUBMITTED: November 22, 1999

GROUP NUMBER: 9112311

SAMPLE TYPE: Water

TEST METHODS:

Conventional Parameters - analyses were performed using procedures based on those described in "British Columbia Environmental Laboratory Manual For the Analysis of Water, Wastewater, Sediment and Biological Materials" (1994 Edition), Province of British Columbia and "Standard Methods for the Examination of Water and Wastewater" 19th Edition, (1995) and 17th Edition (1989), published by the American Public Health Association.

Conventional Parameters in Water

CLIENT SAMPLE IDENTIFICATION:	500mL Effluent	500mL Influent	DETECTION LIMIT
DATE SAMPLED:	Nov 19/99	Nov 19/99	
CAN TEST ID:	911230040	911230041	
Nitrate and Nitrite N	9.4	9.37	0.02
Ammonia Nitrogen N	0.20	28.1	0.02
Total Kjeldahl Nitrogen N	2.1	43.6	0.5

Results expressed as milligrams per liter (mg/L)

CAN TEST LTD.

Tim Matsushita
Coordinator, Water Laboratory

A Member of the CANAM Group
www.testing-labs.com

Analysis Report



CANTEST LTD.

Professional Analytical Services

4806 Canada Way
Burnaby, B.C.
V5G 1K5

FAX: 604 731 2385

TEL: 604 734 7275

1 800 565 5565

REPORT ON: Analysis of Water Samples

REPORTED TO: NovaTec Consultants
224 West 8th Avenue
Vancouver, B.C.
V5Y 1N5

Att'n: Mr. Troy Vassos

CHAIN OF CUSTODY: 22643
PROJECT NAME: Microseptic
PROJECT NUMBER: 150805

NUMBER OF SAMPLES: 4

REPORT DATE: December 1, 1999

DATE SUBMITTED: November 19, 1999

GROUP NUMBER: 9111955

SAMPLE TYPE: Water

TEST METHODS:

Conventional Parameters - analyses were performed using procedures based on those described in "British Columbia Environmental Laboratory Manual For the Analysis of Water, Wastewater, Sediment and Biological Materials" (1994 Edition), Province of British Columbia and "Standard Methods for the Examination of Water and Wastewater" 19th Edition, (1995) and 17th Edition (1989), published by the American Public Health Association.

Conventional Parameters In Water

CLIENT SAMPLE IDENTIFICATION:	1 Effluent 11/18/99	2 Influent 11/18/99	500mL Influent 11/18/99	500mL Effluent 11/18/99	DETECTION LIMIT
DATE SAMPLED:	Nov 18/99	Nov 18/99	Nov 18/99	Nov 18/99	
CAN TEST ID:	911190196	911190197	911190198	911190199	
Total Suspended Solids	3	175	-	-	1
Nitrate and Nitrite N	-	-	0.39	8.6	0.02
Carbonaceous BOD	4.0	54	-	-	2
Ammonia Nitrogen N	-	-	28.2	0.07	0.02
Total Kjeldahl Nitrogen N	-	-	40.3	1.8	0.5

Results expressed as milligrams per liter (mg/L)

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Tim Matsushita
Coordinator, Water Laboratory

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Analysis Report

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Burnaby, B.C.
V5C 1K5

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1 800 655 8566

REPORT ON: Analysis of Water Samples

REPORTED TO: NovaTec Consultants
224 West 8th Avenue
Vancouver, B.C.
V5Y 1N5

Att'n: Mr. Troy Vassos

CHAIN OF CUSTODY: 23414
PROJECT NAME: Microseptic
PROJECT NUMBER: 150805

NUMBER OF SAMPLES: 4

REPORT DATE: December 1, 1999

DATE SUBMITTED: November 18, 1999

GROUP NUMBER: 9111827

SAMPLE TYPE: Water

TEST METHODS:

Conventional Parameters - analyses were performed using procedures based on those described in "British Columbia Environmental Laboratory Manual For the Analysis of Water, Wastewater, Sediment and Biological Materials" (1994 Edition), Province of British Columbia and "Standard Methods for the Examination of Water and Wastewater" 19th Edition, (1995) and 17th Edition (1989), published by the American Public Health Association.

Conventional Parameters in Water

CLIENT SAMPLE IDENTIFICATION:	1 Effluent 11/17/99	2 Influent 11/17/99	500mL Effluent 11/17/99	500mL Influent 11/17/99	DETECTION LIMIT
DATE SAMPLED:	Nov 17/99	Nov 17/99	Nov 17/99	Nov 17/99	
CAN TEST ID:	911180084	911180085	911180086	911180087	
Total Suspended Solids	5	152	-	-	1
Nitrate and Nitrite N	-	-	8.6	0.41	0.02
Carbonaceous BOD	2.7	120	-	-	2
Ammonia Nitrogen N	-	-	0.06	27.1	0.02
Total Kjeldahl Nitrogen N	-	-	1.8	39.7	0.5

Results expressed as milligrams per liter (mg/L)

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Tim Matsushita
Coordinator, Water LaboratoryA Member of the **CANAM** Group
www.testing-labs.com

Page 1

Analysis Report



CANTEST LTD.

Professional Analytical Services

4606 Canada Way
Burnaby, B.C
V5G 1K5

FAX: 604 731 2388

TEL: 604 734 7278

1 800 885 8586

REPORT ON: Analysis of Water Samples

REPORTED TO: NovaTec Consultants
224 West 8th Avenue
Vancouver, B.C.
V5Y 1N5

Att'n: Mr. Troy Vassos

CHAIN OF CUSTODY: 26179
PROJECT NAME: Microseptic
PROJECT NUMBER: 150805

NUMBER OF SAMPLES: 4 REPORT DATE: December 1, 1999

DATE SUBMITTED: November 17, 1999 GROUP NUMBER: 9111734

SAMPLE TYPE: Water

TEST METHODS:

Conventional Parameters - analyses were performed using procedures based on those described in "British Columbia Environmental Laboratory Manual For the Analysis of Water, Wastewater, Sediment and Biological Materials" (1994 Edition), Province of British Columbia and "Standard Methods for the Examination of Water and Wastewater" 19th Edition, (1995) and 17th Edition (1989), published by the American Public Health Association.

Conventional Parameters in Water

CLIENT SAMPLE IDENTIFICATION:	1 Effluent 11/16/99	2 Influent 11/16/99	500mL Effluent 11/16/99	500mL Influent 11/16/99	DETECTION LIMIT
DATE SAMPLED:	Nov 16/99	Nov 16/99	Nov 16/99	Nov 16/99	
CAN TEST ID:	911170153	911170154	911170155	911170156	
Total Suspended Solids	4	247			1
Nitrate and Nitrite N	-	-	8.5	0.40	0.02
Carbonaceous BOD	4.0	197			2
Ammonia Nitrogen N	-	-	0.05	30.1	0.02
Total Kjeldahl Nitrogen N	-	-	1.7	41.0	0.5

Results expressed as milligrams per liter (mg/L)

CAN TEST LTD.

Tim Matsushita
Coordinator, Water Laboratory

A Member of the CANAM Group
www.testing-labs.com

REPORTED TO: NovaTec Consultants



REPORT DATE: December 1, 1999

GROUP NUMBER: 9111619

Conventional Parameters in Water

CLIENT SAMPLE IDENTIFICATION:	1 Effluent 11/15/99	2 Influent 11/15/99	500mL Influent 11/15/99	500mL Effluent 11/15/99	DETECTION LIMIT
DATE SAMPLED:	Nov 15/99	Nov 15/99	Nov 15/99	Nov 15/99	
CAN TEST ID:	911160245	911160250	911160251	911160252	
Total Suspended Solids	7	464			1
Nitrate and Nitrite N	-	-	0.34	9.1	0.02
Carbonaceous BOD	4.3	259			2
Ammonia Nitrogen N	-	-	27.9	0.52	0.02
Total Kjeldahl Nitrogen N	-	-	46.3	2.6	0.5

Results expressed as milligrams per liter (mg/L)

Facsimile Cover Sheet



224 West 8th Avenue
Vancouver, British Columbia
Canada V5Y 1N5
Telephone (604) 873-9262
Facsimile (604) 873-2353

This transmission may contain confidential or privileged information. Please deliver it to the addressee immediately. Any other dissemination is prohibited. If you have received this transmission in error or any pages are missing, please call (604) 873-9262 immediately and ask for the fax operator.

To: MicroSepTec Technologies
26601 Cabot Road
Laguna Hills, CA 92653
Date: August 22, 2000
File: 1048-04
Fax: 949-367-8655
Attention: Tina Edvardsson
Subject: Nitrogen Data Collected During NSF/ANSI Standard 40 Testing Program
From: Troy Vassos
cc:

Number of Pages: 1 (Including Cover Sheet)

Tina:

Nitrogen data was collected during the 1999 NSF/ANSI Standard 40 testing carried out on the MicroSetTec EnviroServer, at the Bazan Bay test facility. The Bazan Bay test facility is operated by NovaTec Consultants Inc. under contract to the National Sanitation Foundation (NSF International), based in Ann Arbor Michigan. Composite influent (raw sewage) and effluent samples were collected daily on November 15 through 19, 1999, and were sent to CanTest Ltd. laboratories (an independent laboratory) for analysis, the results of which are attached. The sewage originated from a small 700 home subdivision.

Please give me a call if you have any questions or require further information.

Regards,

Troy D. Vassos, Ph.D., P.Eng.
Senior Environmental Engineer
President