

Shawnigan Village Waterworks**ANNUAL REPORT***(Drinking Water System Name)*

Reporting Period:	2011
Operating Permit Number:	0353
Drinking Water System Owner:	Lidstech Holdings
Drinking Water System Contact:	
Name:	<u>Rod Lidstone</u>
Phone No:	<u>(250) 743-4091</u>
Email:	<u>info@shawniganwater.com</u>

1 Microbiological testing completed during this reporting period:

- a. bacteriological results attached to this report.
- b. adverse bacteriological results: None detected
 Listed in table below:

Adverse Results:

Date	Total coliform	E. Coli	Reason	Corrective Action
Nil				

2 Chemical results for this reporting period:

None taken for this recording period

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3 Summarize additional testing and sampling carried out in accordance with the requirement of a Water Source approval, Written Order or as per the conditions of your *Operating Permit*.

- no additional testing
 additional listed below: See also attached summary report and downloaded charts

Additional testing:

Description of parameter & reason for sampling	Health parameter or non-health related parameter	Corrective action necessary (Y/N?)	Corrective action taken
Turbidity monitoring as per VIHA Policy 3.3.	1 NTU or less for 95% of the days in the year. Not above 5 NTU on more than 5 days a year	N	

4 Water Quality Complaints:

During the course of the year, the water system:

- did not receive water quality complaints (ie taste, odour, colour, etc)
 received water quality complaints and are listed below:

Water Quality Complaints:

Date	Water quality complaint	Corrective action taken
July 27- Aug 9	Several low Pressure phone calls	These were all during our annual flushing period

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5 Adverse results: Total number of adverse results during this reporting period for insufficient water supply, malfunction of disinfection equipment or elevated turbidity:

- No adverse results
- Adverse results listed below:

Adverse Results:

Incident date	Corrective action	Corrected by

6 Description of the system:

Sources of raw water:

- Groundwater
- Surface water
- Other (specify): _____

Does the drinking water system have disinfection? Yes No

Disinfection methods (check boxes that apply):

- Chlorination
- Ultraviolet light
- Ozonation
- Other (specify): _____

Does the drinking water system have treatment? Yes No

Treatment type (check boxes that apply):

- Particulate cartridge filters
- Membrane filtration
- Carbon filter
- Sand filtration
- Reverse osmosis
- Other (specify): _____

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7 Major expenses incurred during the period covered by the report:

To purchase or install required equipment:	_____ \$80,900
To repair equipment:	_____ \$13,228
To replace equipment:	_____ \$27,100
To complete annual maintenance of system: <i>(system flushing, replacement of carbon filters, etc)</i>	_____ \$10,000
To complete specialist report (specify): <u> </u>	
<i>Turbidity Monitoring</i>	_____ \$1,155

8 Further communication with users:

a. Indicate how you notified system users that your annual report is available, and is free of charge:

- hand delivered
- public access/ notice via web
- public access/notice via government office
- public access/notice via newspaper
- public access/notice via bill stuffer
- public access/ notice via other method (specify): _____

b. Improvements or remedial actions required by the Drinking Water Officer:

- no action required
- Drinking Water Officer inspection report attached to report
- actions required by Drinking Water Officer listed below:

Improvements/Remedial Actions:

Required action	Completion date

c. Future water system improvements:

- no improvements planned
- improvements listed below:

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Future Improvements:

Future plans	Planned completion date
Cellular alarm notification system	July 2012
Ultra violet disinfection	???

d. Emergency Response Plan can be accessed by:

- posting on web
- posting at nearest government office
- contacting water system owner
- Other (specify): _____

SYSTEM NAME: Shawnigan Village Water Works E.H.O. NAME: Mark Hall
 ADDRESS: 1584 Shawnigan Lake Rd PO Box 369 Shawnigan Lake POSTAL CODE: _____ SYSTEM NUMBER: _____
 OPERATOR: _____ INSPECTION DATE (DMY): 17 Oct 2011 TIME SPENT (Hrs. - nearest 1/4): 1.25

SYSTEM TYPE (CHECK One)

> 20,000 (DWP) 10,001 - 20,000 (DWM) 301 - 10,000 (DWT) 15 - 300 (DWC) 2 - 14 (DWS) 1 HAULER (DWH)

1 - SERVES PUBLIC (DWQ)

TYPE OF INSPECTION

INITIAL ROUTINE
 COMPLAINT FOLLOW-UP

CRITICAL HAZARD

These items relate to Public Health Safety & MUST RECEIVE IMMEDIATE ATTENTION

Microbiological Contamination of Raw Water Supply Due to:

301 Flood
 302 Sewage
 303 Industrial
 304 Agriculture
 305 Other (Specify) _____

306 Chemical Contamination of Raw Water Supply
 307 Contamination of Finished Water - Reservoir
 308 Contamination of Finished Water - Mains
 309 Cross-Connection
 310 Use of Unapproved Source
 311 Interruption of Treatment
 312 Inadequate Treatment
 313 Other (Specify) _____

SANITATION & MAINTENANCE

These items must be corrected within a designated time period

314 Improper Maintenance of Distribution System
 315 Improper or No Disinfection of New or Repaired Main
 316 Source Unprotected and Subject to Contamination
 317 Inadequate or Improper Construction of Water Works
 318 Inadequate Microbiological Analysis Data
 319 Inadequate Chemical Analysis Data
 320 Interruption of Treatment
 321 Inadequate Treatment
 322 Emergency Response Plan
 323 Other (Specify) _____

CODE	FINDINGS AND ACTIONS REQUIRED
323	Complete the 2010 Annual Report and submit a copy to this office
①	Upgrades have been made to the Jersey rd. pump house Water is now re-chlorinated at this point - Recent bacteriological samples have been satisfactory - Ensure emergency response plan is updated with a copy submitted to this office - please submit a progress report on where your system is in regards to VHA's 4-3-2-1 policy compliance deadline of March 31, 2012

At the time of inspection this system has a hazard rating of HIGH MODERATE LOW Issue Permit Conditions of Permit

FOLLOW UP VISIT PHONE Date _____

RECEIVED BY: To be Mailed PRINT NAME: _____ E.H.O.: _____

Water Sample Range Report

Vancouver Island Health Authority
Central Island

Facility Name: SHAWNIGAN VILLAGE WATER WORKS
Facility Type: DWC
Date Range: Jan 1 2011 to Dec 31 2011
Date Created: Jan 13 2012

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Shawnigan Lake,</u>				
<u>2730 Galland Road,</u>				
<u>Dist. site, Weekly</u>				
	05-Jan-2011	L1	L1	
	11-Jan-2011	L1	L1	
	18-Jan-2011	L1	L1	
	26-Jan-2011	L1	L1	
	02-Feb-2011	L1	L1	
	09-Feb-2011	L1	L1	
	15-Feb-2011	L1	L1	
	23-Feb-2011	L1	L1	
	02-Mar-2011	L1	L1	
	09-Mar-2011	L1	L1	
	16-Mar-2011	L1	L1	
	23-Mar-2011	L1	L1	
	30-Mar-2011	L1	L1	
	06-Apr-2011	L1	L1	
	12-Apr-2011	L1	L1	
	19-Apr-2011	L1	L1	
	27-Apr-2011	L1	L1	
	04-May-2011	L1	L1	
	11-May-2011	L1	L1	
	18-May-2011	L1	L1	
	25-May-2011	L1	L1	
	01-Jun-2011	L1	L1	
	08-Jun-2011	L1	L1	
	15-Jun-2011	L1	L1	
	22-Jun-2011	L1	L1	
	29-Jun-2011	3	L1	
	06-Jul-2011	L1	L1	
	13-Jul-2011	L1	L1	
	20-Jul-2011	L1	L1	
	27-Jul-2011	L1	L1	
	02-Aug-2011	L1	L1	
	10-Aug-2011	L1	L1	
	17-Aug-2011	L1	L1	
	24-Aug-2011	L1	L1	
	31-Aug-2011	L1	L1	
	06-Sep-2011	L1	L1	
	13-Sep-2011	L1	L1	
	21-Sep-2011	L1	L1	
	28-Sep-2011	L1	L1	
	05-Oct-2011	L1	L1	
	12-Oct-2011	L1	L1	
	18-Oct-2011	L1	L1	

26-Oct-2011	L1	L1
01-Nov-2011	L1	L1
08-Nov-2011	L1	L1
15-Nov-2011	L1	L1
22-Nov-2011	L1	L1
30-Nov-2011	L1	L1
07-Dec-2011	L1	L1
14-Dec-2011	L1	L1
21-Dec-2011	L1	L1
21-Dec-2011	<u>L1</u>	<u>L1</u>
Total Positive:	1	0

0

Shawnigan Lake,
Aitken & Fraser,
Store, Dist. site,
Weekly

05-Jan-2011	L1	L1
11-Jan-2011	L1	L1
18-Jan-2011	L1	L1
26-Jan-2011	L1	L1
02-Feb-2011	L1	L1
09-Feb-2011	L1	L1
15-Feb-2011	L1	L1
23-Feb-2011	L1	L1
02-Mar-2011	L1	L1
09-Mar-2011	L1	L1
16-Mar-2011	L1	L1
23-Mar-2011	L1	L1
30-Mar-2011	L1	L1
06-Apr-2011	L1	L1
12-Apr-2011	L1	L1
19-Apr-2011	L1	L1
27-Apr-2011	L1	L1
04-May-2011	L1	L1
11-May-2011	L1	L1
18-May-2011	L1	L1
25-May-2011	L1	L1
01-Jun-2011	L1	L1
08-Jun-2011	L1	L1
15-Jun-2011	L1	L1
22-Jun-2011	L1	L1
29-Jun-2011	L1	L1
06-Jul-2011	L1	L1
13-Jul-2011	L1	L1
20-Jul-2011	L1	L1
27-Jul-2011	L1	L1
02-Aug-2011	L1	L1
10-Aug-2011	L1	L1
17-Aug-2011	L1	L1
24-Aug-2011	L1	L1
31-Aug-2011	L1	L1
06-Sep-2011	L1	L1
13-Sep-2011	L1	L1
21-Sep-2011	L1	L1
28-Sep-2011	L1	L1
05-Oct-2011	L1	L1
12-Oct-2011	L1	L1
18-Oct-2011	L1	L1

26-Oct-2011	L1	L1	
01-Nov-2011	L1	L1	
08-Nov-2011	L1	L1	
15-Nov-2011	L1	L1	
22-Nov-2011	L1	L1	
30-Nov-2011	L1	L1	
07-Dec-2011	L1	L1	
14-Dec-2011	<u>L1</u>	<u>L1</u>	
Total Positive:	0	0	0

#15, Shawnigan
Village MHP, Dist.
site, No Regular
Sampling

Result Values:

E - estimated

L - less than

G - greater than

Samples that contain total coliform:	1	0.98% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of positive samples in last 30 days:	0/6	
Total number of samples:	102	

Comments:

Sampling frequency meets VHA requirements


Environmental Health Officer

Jan 16 2012

FOR FURTHER INFORMATION PLEASE CALL: Hall, Mark (250) 737-2010 Duncan

Operator

Rod Lidstone
PO BOX 369
Shawnigan Lake, BC
V0R 2W0

(250) 389-4091

John Motherwell & Associates Engineering Ltd.

35 CADILLAC AVENUE, VICTORIA B. C. V8Z 1T3

Telephone: Bus. 250 475-3535
Fax. 250 475-3536
Res. 250 477-6701

CONSULTING ENGINEERS

JOHN L. MOTHERWELL
B.A.Sc., P.Eng., C.L.S., B.C.L.S.

S72-264

March 13, 2012

FAX (250) 743-4021

Lidstech Holdings Ltd.
Db a Shawnigan Village Waterworks
P.O. Box 369
Shawnigan Lake BC V0R 2W0

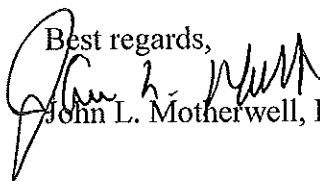
Dear Rod: **Re: Turbidity Readings for 2012**

We are attaching copies of the turbidity charts for November 2011 to February 2012.
The results for the year 2011 are as follows.

	Days over 1 NTU	Days over 5 NTU
2011 Jan.	Nil	Nil
Feb.	Nil	Nil
Mar.	Nil	Nil
Apr.	Nil	Nil
May.	1	1
Jun.	Nil	Nil
Jul.	1	Nil
Aug.	Nil	Nil
Sept.	Nil	Nil
Oct.	Nil	Nil
Nov.	Nil	Nil
Dec.	<u>Nil</u>	<u>Nil</u>
Totals	2	1

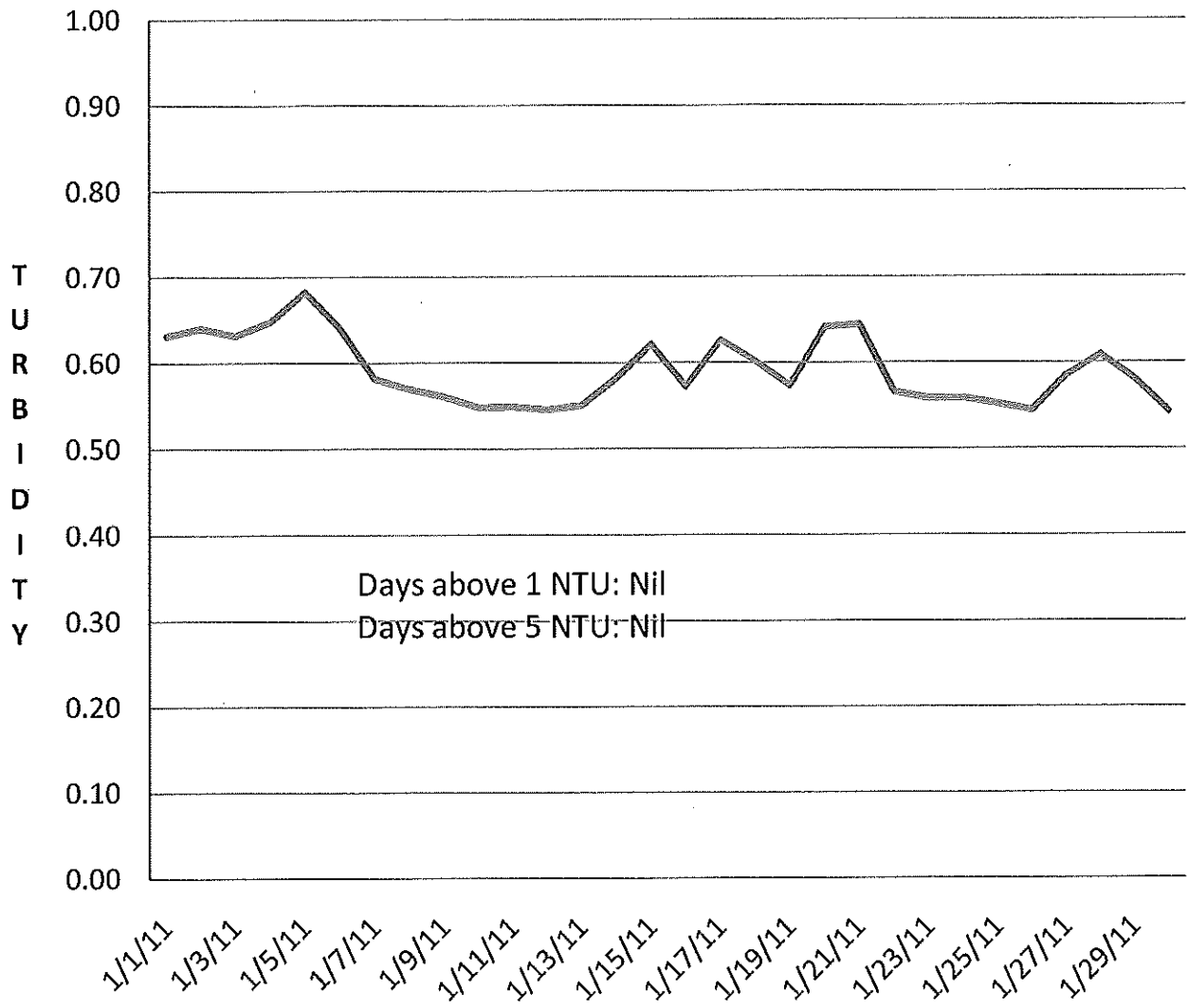
As you will see, the results for January and February 2012 are also favourable.

A report on temperature readings will follow shortly.

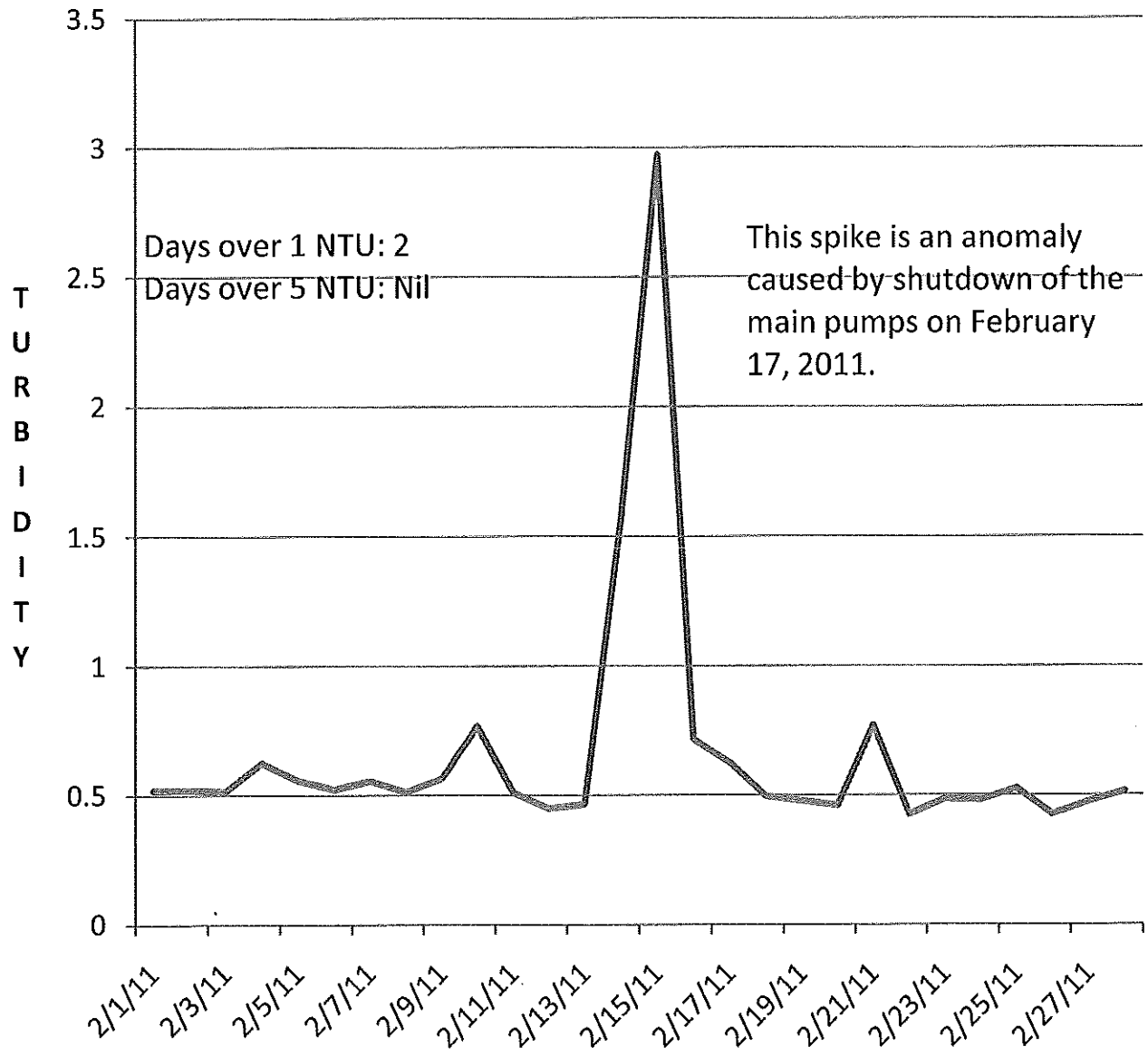
Best regards,

John L. Motherwell, P. Eng.

JLM:ma

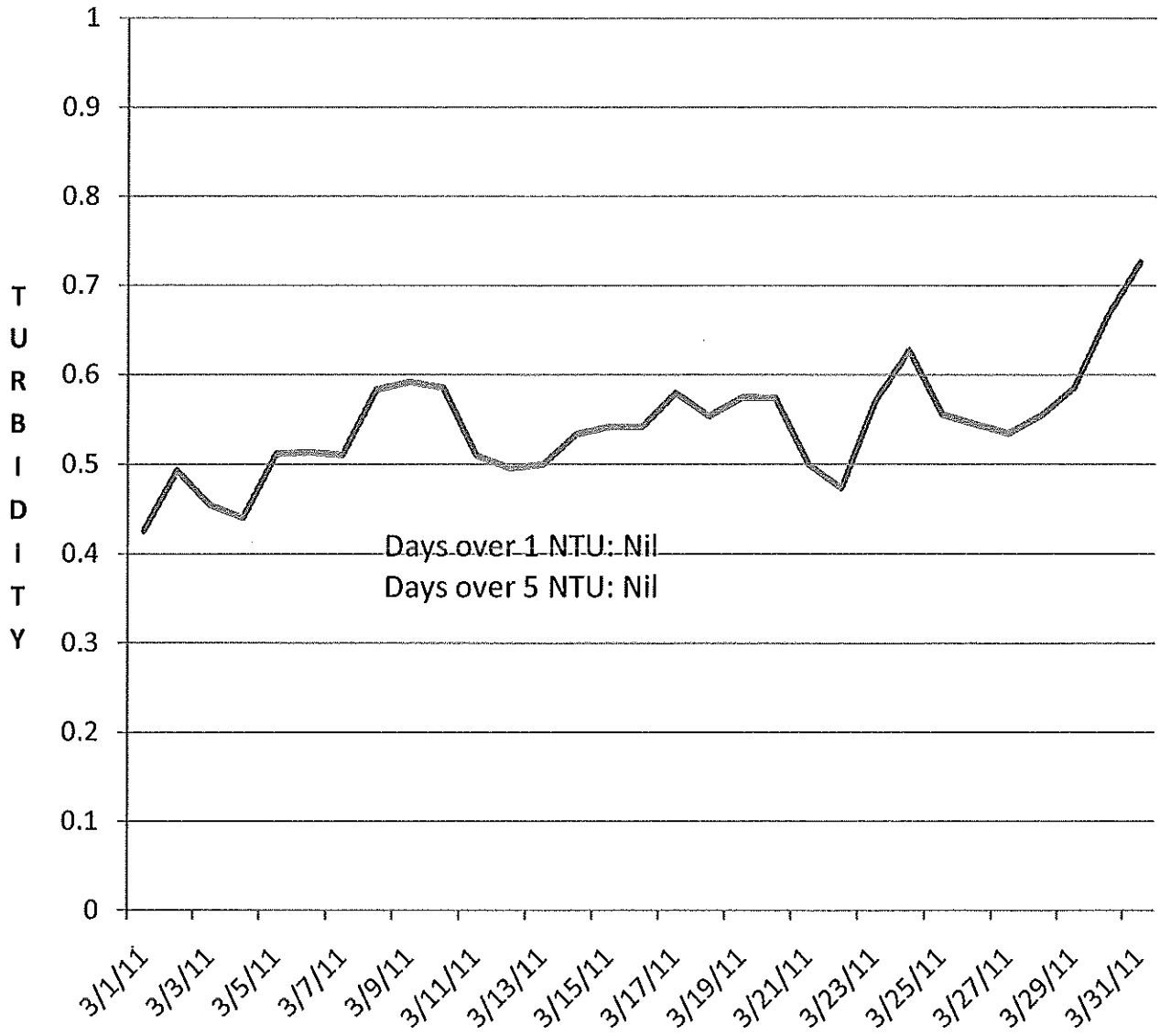
SHAWNIGAN TURBIDITY JAN. 2011



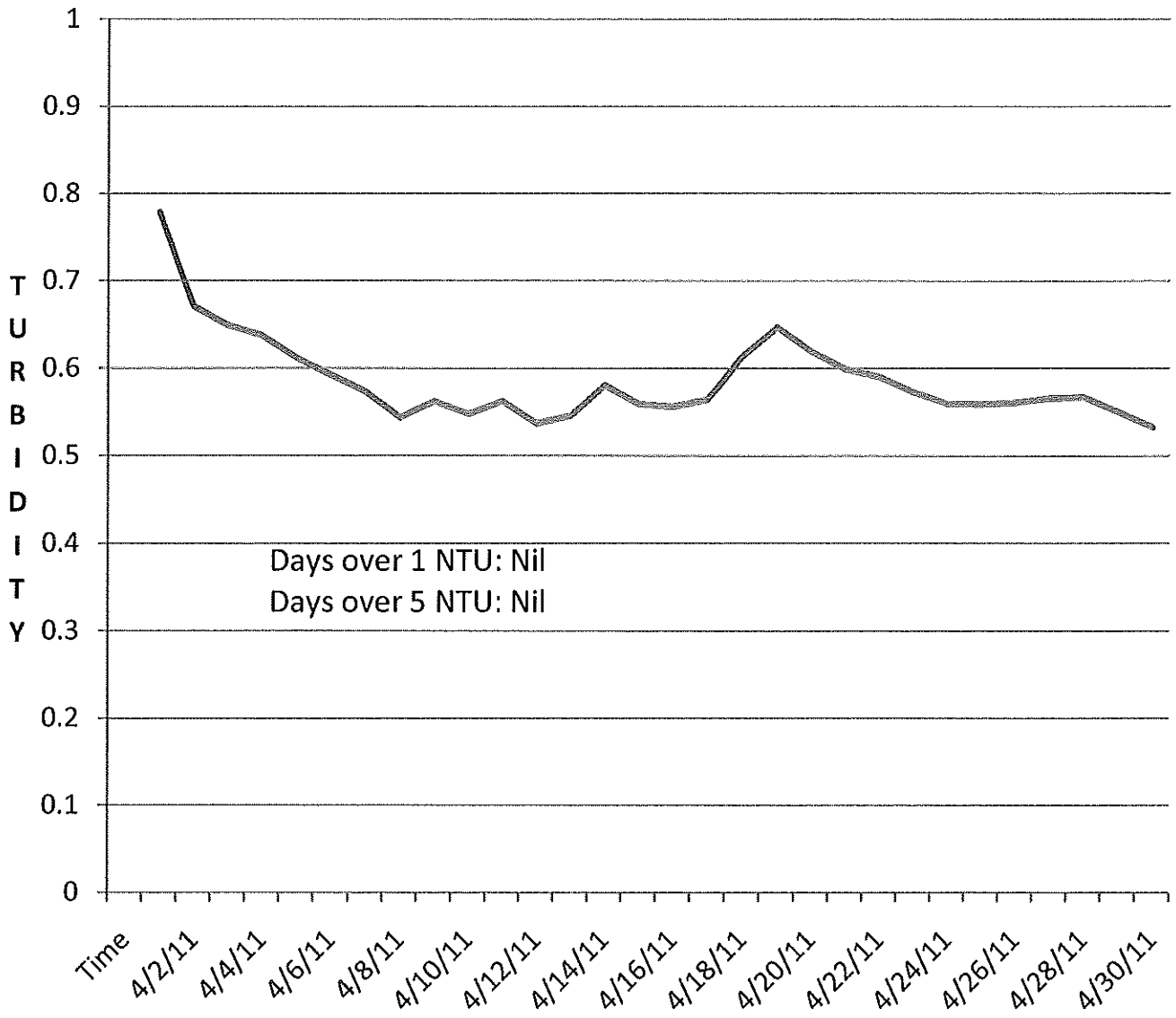
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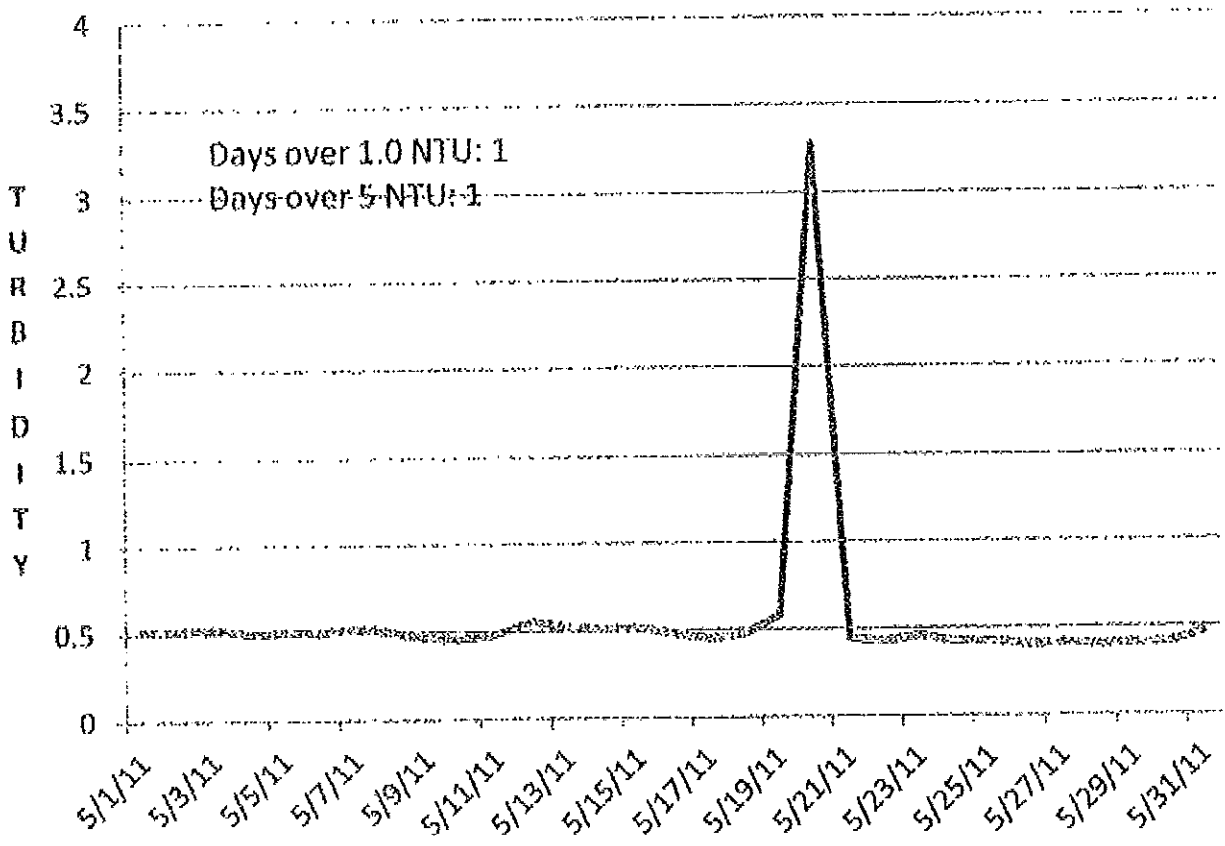
SHAWNIGAN TURBIDITY MAR 2011



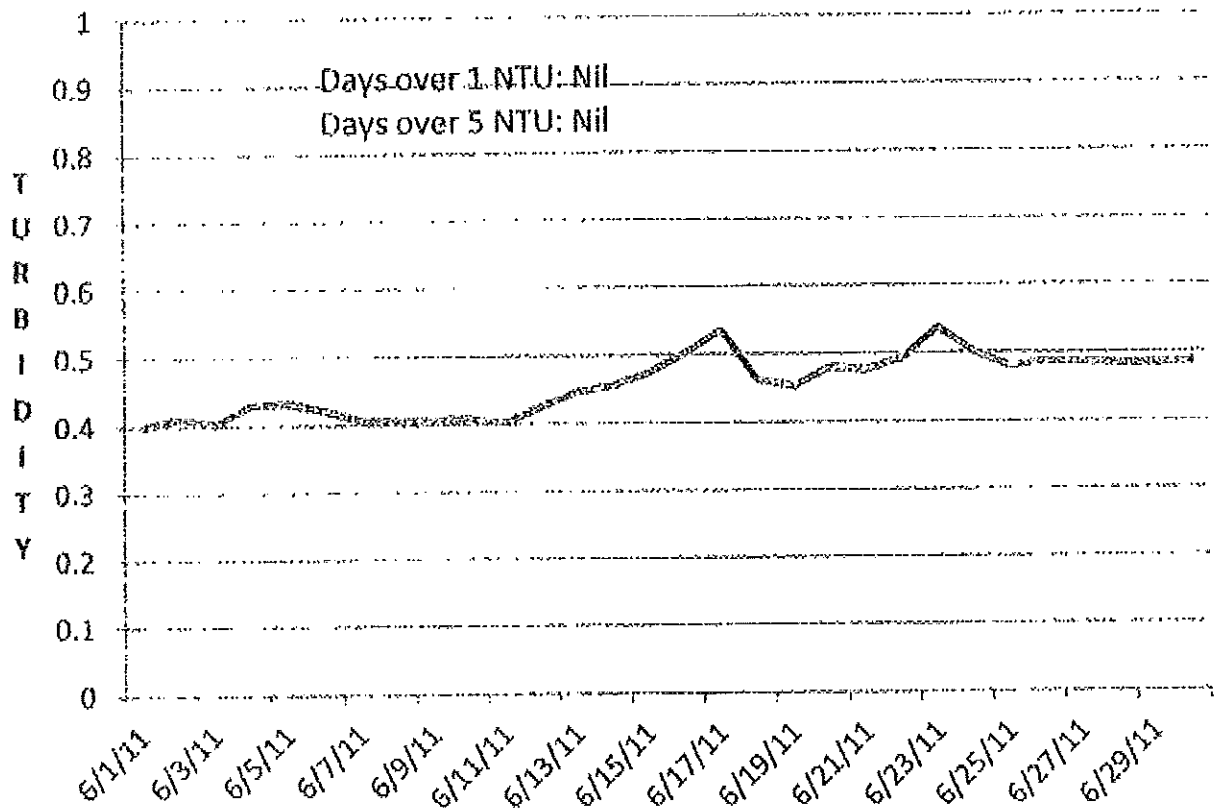
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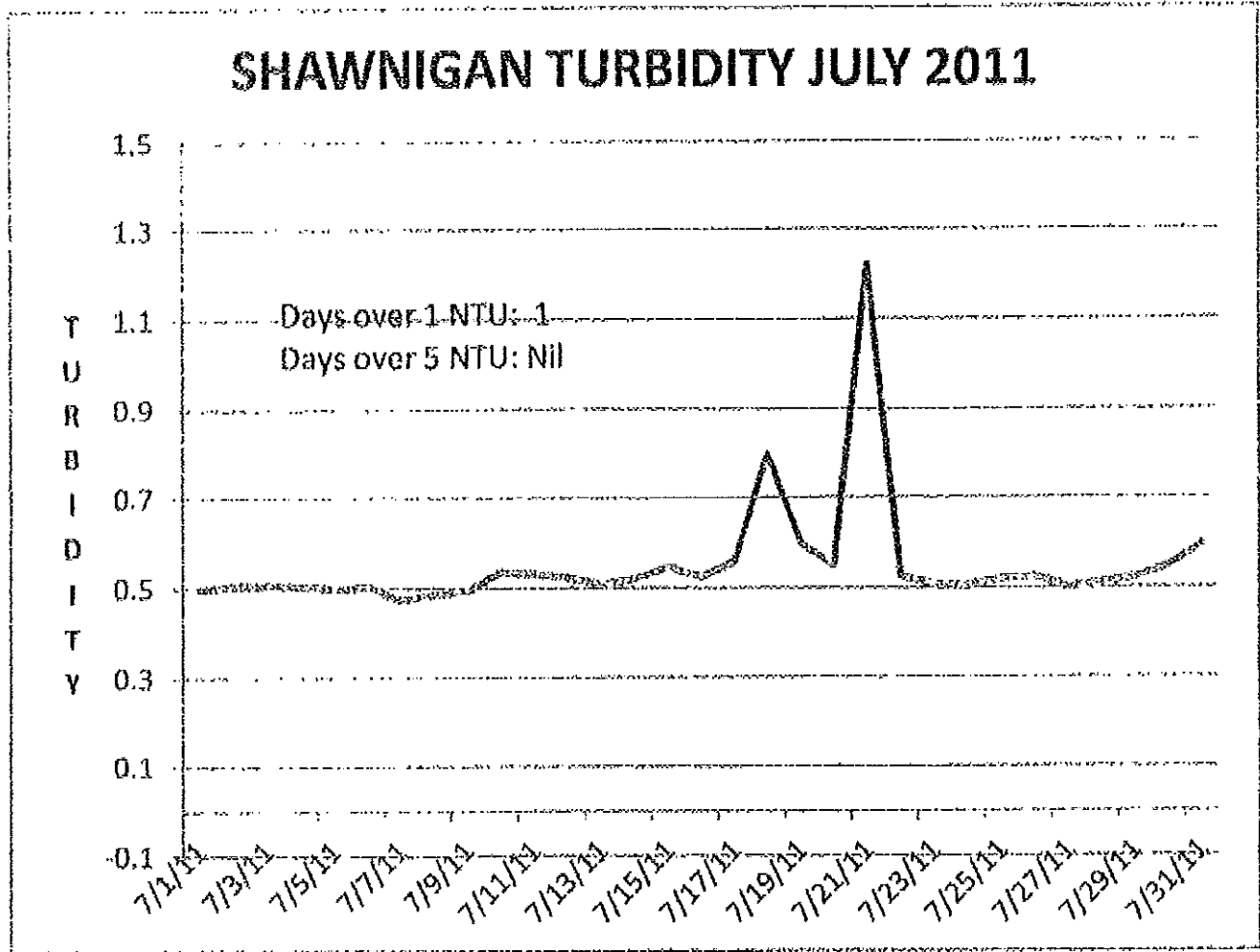


SHAWNIGAN TURBIDITY MAY 2011

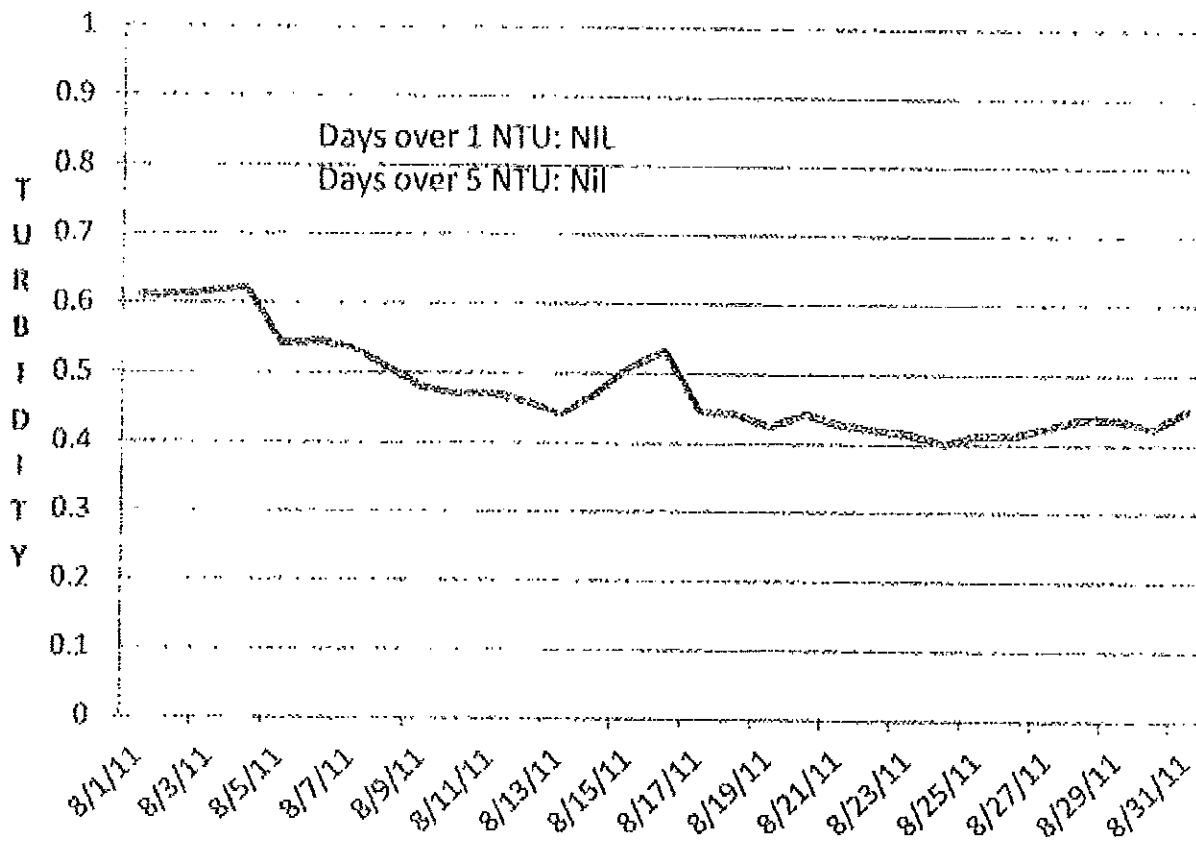


SHAWNIGAN TURBIDITY JUNE 2011

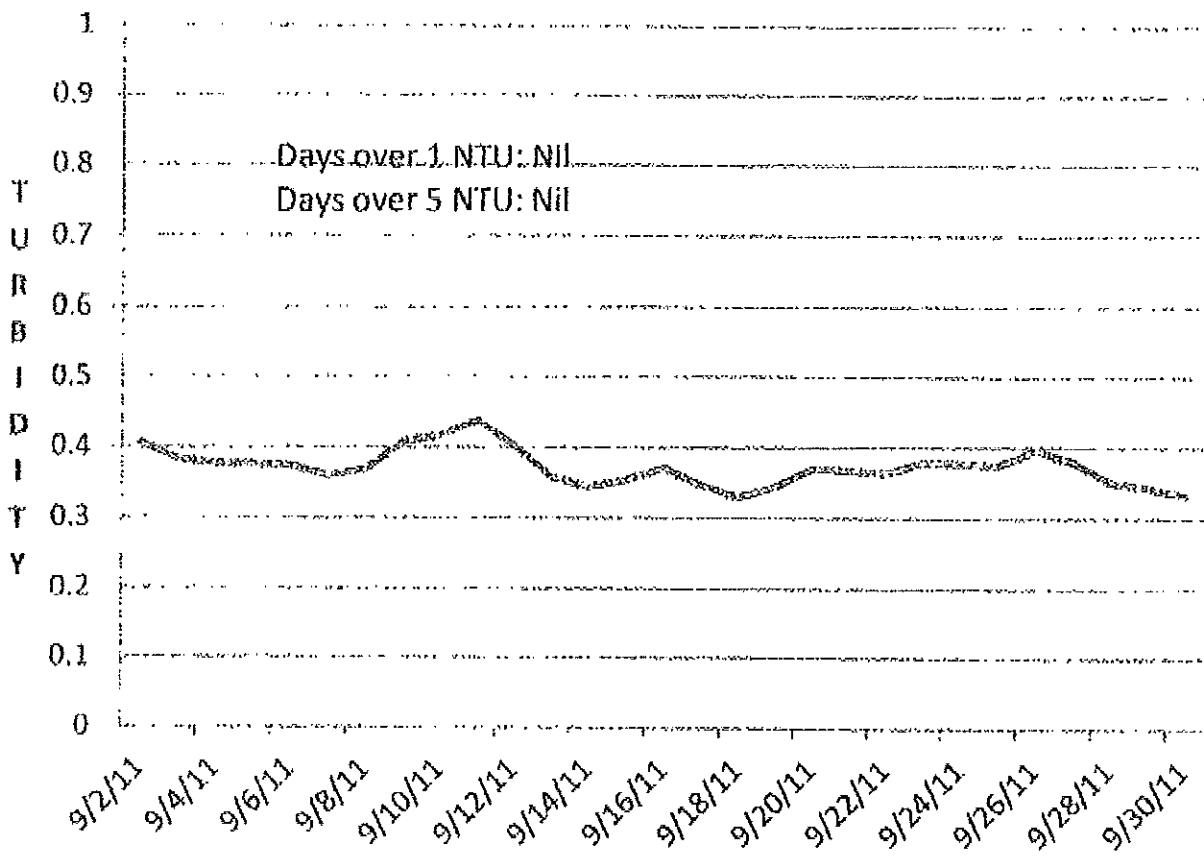




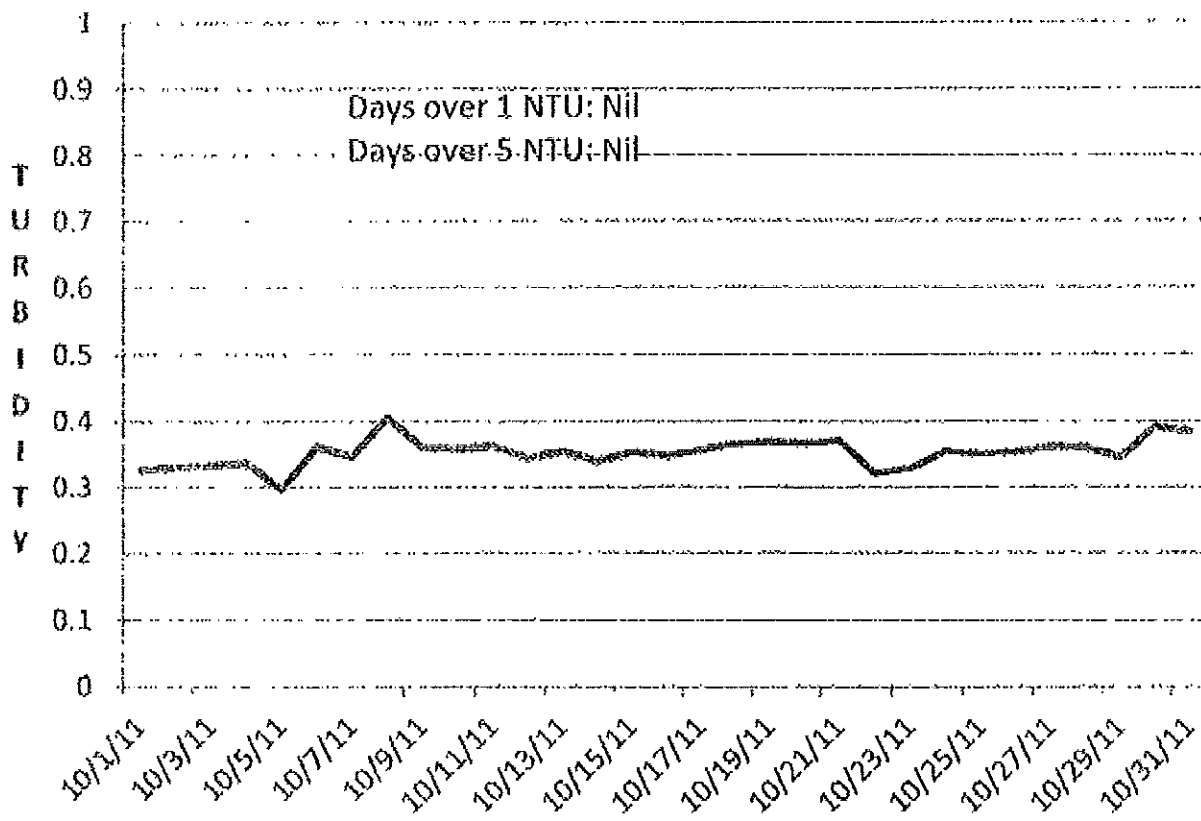
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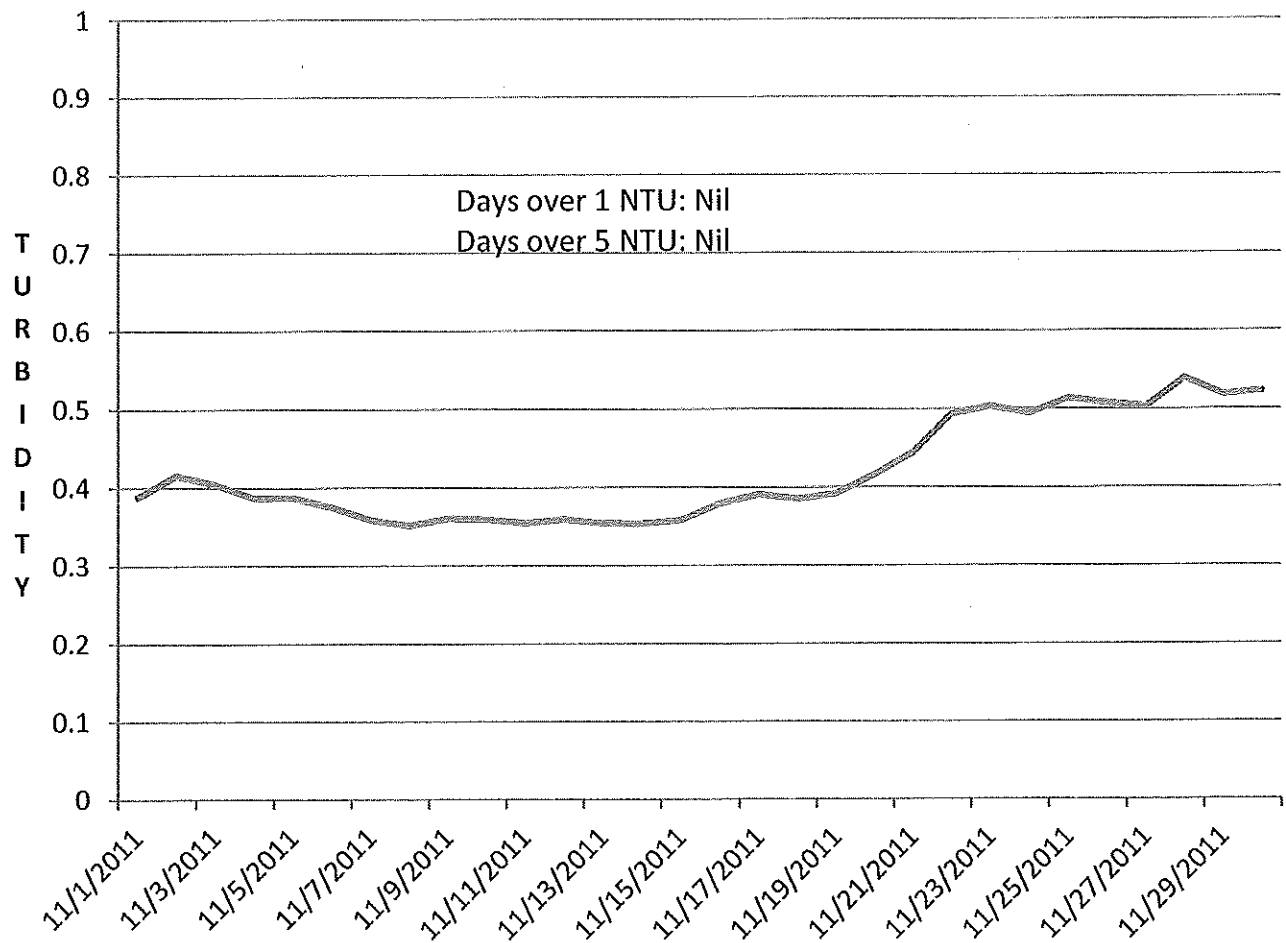
SHAWNIGAN TURBIDITY SEPT. 2011



SHAWNIGAN TURBIDITY OCT. 2011



SHAWNIGAN TURBIDITY NOV. 2011



SHAWNIGAN TURBIDITY DEC. 2011

