

**Alliance of Pigeon Lake Municipalities (APLM)**  
**Meeting Agenda - Wednesday, March 15, 2017 6:00 pm**  
**Leduc County Centre, Room 241**

- 1) Call to Order
  
- 2) Adoption of Agenda
  
- 3) Minutes
  - a) Adoption of Minutes – January 18, 2017
  
- 4) Delegations
  - a) Pigeon Lake Watershed Association – Update
  
- 5) New Business
  - a) Pigeon Lake Watershed Management Plan – Steering Committee Update
  - b) Technical Committee Reports
    - i) In-Lake Technical Committee – Update
    - ii) Aquatic Invasive Species Subcommittee - Update
    - iii) Algae Harvester and Bioremediation Subcommittees – Update
    - iv) Nutrient Recovery Subcommittee - Update
  - c) Research Project for Pigeon Lake: an investigation into Cyanobacteria at Pigeon Lake by Dr. Vinebrooke and a request for funding support.
  - d) APLM Appointment for PLWMP Vice-Chair
  - e) APLM 2017 Goals
  - f) Chair's Update
  - g) Economic Assessment
  - h) Article – Dealing with Blue/Green Algae
  - i) LEADERS SESSION
  - j) SPRING NEWSLETTER

**6) Financials**

- a) Bank Reconciliation – January, 2017
- b) Financial Report – January, 2017

**7) Meeting Schedule**

- a) APLM Next Meeting – June 14, 2017 @ 6 PM.

**8) Adjournment**

**ALLIANCE OF PIGEON LAKE MUNICIPALITIES MEETING MINUTES**

**January 18, 2017, 6:00 pm**

**Room 241**

**Leduc County Administration Office**

**ATTENDANCE:**

Glenn Belozer, Leduc County

Ralph Johnston, Itaska Beach

Randal Kay, Golden Days

Don Davidson, Grandview

Pete Langelle, Ma-Me-O Beach

Frank Dyck, Norris Beach

Brian Meaney, Poplar Bay

Barb Marinson, Silver Beach

Brian Waterhouse, Sundance Beach

June Boyda, CAO Itaska Beach & Recording Secretary

**REGRETS:**

Ernie Elko, Argentia Beach

Grant Churchill, Crystal Springs

**GUESTS:**

Bob Gibbs, Pigeon Lake Watershed Association

Susan Ellis, Pigeon Lake Watershed Association

Michael Gaian, Pigeon Lake Watershed Association

Arin Macfarlane Dyer, Alberta Environment and Parks

**CALL TO ORDER:**

Chairman Brian Waterhouse called the meeting to order at 6:06 pm.

**ADOPTION OF AGENDA**

Additions and amendments:

Remove Item 5b(iv) as it is a duplicate to item 5b(iii)

Moved by Don Davidson to approve the agenda as amended.

CARRIED

**APPROVAL OF MINUTES:**

Moved by Frank Dyck to approve the minutes of the November 9, 2016 APLM meeting as amended.

CARRIED

**DELEGATIONS:****Pigeon Lake Watershed Association**

Susan Ellis reviewed the report that was distributed to the members.

**NEW BUSINESS:****Pigeon Lake Watershed Management Plan – Steering Committee Update**

Don Davidson summarized a workshop that was held on January 13, 2017, and hosted by Dr. Vinebrooke. It was attended by representatives of AEP, the University of Alberta, environmental consultants, the PLWMP steering committee, PLWA and members of the in-lake technical committees. A summary of the notes from the workshop will be distributed to the members.

Bob Gibbs asked that members bring the information back to their Councils, and asked how Councils would like to be engaged in the process.

**Technical Reports****In-Lake Technical Committee - Update**

Ralph Johnston discussed the on-going work and research being completed by the in-lake technical committee, as per the report that was distributed to the members.

Arin Macfarlane Dyer recommended that the in-lake committee send any terms of reference for a consultant to Alberta Environment and Parks prior to hiring a consultant, to ensure that the work being done will meet their technical requirements.

Pete Langelle distributed information that he had collected on the ice going in and out, snowfall, rain, and flow over the weir, starting from May 12, 2013 – January 18, 2017.

**Aquatic Invasive Species Subcommittee - Update**

Brian Waterhouse discussed that the focus right now is on signage and education. They are looking into the options regarding a wash station if costs and maintenance are feasible.

**Algae Harvester and Bioremediation Subcommittees – Update**

Don Davidson advised that Dr. Vinebrooke is preparing a technical paper on his work last summer.

For the Algae Harvester, a grant application has been made to Alberta Innovates, and are waiting to hear if the application is approved. In the meantime, investigations are continuing into the potential application of this process at Pigeon Lake.

**APLM PLWA Roles and Responsibilities for the PLWMP**

Moved by Don Davidson that The APLM PLWA Roles and Responsibilities were approved as amended, subject to final review and approval by the APLM members.

CARRIED

**APLM Goals for 2017**

Goals were reviewed for the APLM to focus on, with new topics able to be brought forward by members to be discussed during APLM meetings. A summary of the goals will be distributed to the members.

**Communication Policy for APLM**

Don Davidson discussed creating a communication policy.

The process will be to circulate any documents as drafts such as newsletters or letters via email among the members, leaving approximately 5 days for feedback to be received. If no comments are received, it is assumed that the document is okay to be distributed.

It was agreed that the minutes and supporting information would be posted effective this meeting with the remaining to be posted shortly. It was also recommended that the PLWA post their minutes.

**Pigeon Lake Renewal Group – Correspondence**

This topic was presented as information.

**County of Wetaskiwin – Committee Membership**

This topic was accepted as information.

**FINANCIALS:**

**Bank Reconciliation – November 30, 2016**

The bank reconciliation for November 30, 2016 was presented to the APLM members.

**Financial Report**

There is sufficient of funding available, so there will not be a requirement for invoicing for 2017.

Moved by Frank Dyck to accept the financial statements dated November 30, 2016 as presented to the APLM members.

CARRIED

**MEETING SCHEDULE:**

**Date of Next Meeting**

March 15, 2017 at 6:00 p.m.

**ADJOURNMENT:**

Moved by Brian Meaney to adjourn the meeting at 8:15 pm.

CARRIED

THESE MINUTES ADOPTED THIS 15<sup>th</sup> DAY OF MARCH, 2017

\_\_\_\_\_  
CHAIR

\_\_\_\_\_  
RECORDING SECRETARY



**1) Approved Budget Highlights**

- a. Executive Director, Summer Staff and Visibility and Stewardship Programs. Want to coordinate with municipalities.
- b. Stewardship Programs: Love The Lake, email timely information and guidance,
- c. Completion of Clean Runoff Program
  - i) Completion of Clean Action Runoff Guide subject to additional funding
  - ii) AV presentation roll-out!!
  - iii) completion and follow-up on Residential and Municipal Demo sites
  - iv) Workshops for landscaping using lake Clean Action guide
- d. Watershed Plan 2017 - financial and technical support
- e. Deficit Budget

**2) Revenue**

- a. Base funding by municipalities is extremely important, we use these funds to leverage other grants. We would like more discussion with APLM and the Councils to increase funds for both undesignated and designated municipal contributions to the important work that PLWA does on your behalf.

**3) PLWMP Roles and Responsibilities – Approved**

**4) Important Dates**

- a. **Saturday April 29, 2017:** Pigeon Lake Leaders Session at the Nisku Recreation Centre
  - i) very important for each council to attend
  - ii) Quite a focus this year on the integrated watershed plan plus update on Clean Runoff Program
- b. **Saturday July 29, 2017.** PLWA AGM and open house at the Lakedell Agriculture Centre
  - i) PLWA report to members
  - ii) Special Speakers
  - iii) Information and Trade show
  - iv) Please book AIMS to avoid where possible
- c. Municipal councils: We do try and meet with each municipal council during the winter - when is the best time
- d. Municipal AIMS: We attend and make a small presentation and provide information
- e. ELECTIONS: need to keep informed about the lake and the Watershed plan.

## APLM Board Update – March 15, 2017

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### 1) Meetings

- a. PLWMP Steering Committee Meetings:
  - i) Friday Feb 03, 2017 –
  - ii) Friday March 10 @ 9:00-1pm
  - iii) Friday April 7, 2017 9:00 am to 12:30 pm
  - iv) Friday May 12, 2017 9:00 am to 12:30 pm
- b. Special Technical Meeting- January 13, 2017
  - i) General Discussion with researchers and stakeholders to build Pigeon Lake section of WMP- reading file
- c. Engagement Committee meetings at various times

### 2) Roles and Responsibilities – Approved – reading file

### 3) PLWMP Outreach

- a. PLWA and APLM Boards in March
- b. County of Wetaskiwin – Reeve Kathy Rooyakkers attended her first meeting
- c. Lakedell Agricultural Society - President Tim Belec has attended two meetings
- d. Pigeon Lake Regional Chamber of Commerce – Economic Study Underway
- e. Pigeon Lake Leaders Session - April 29 - this is urgent and a must for representation from each council
- f. First Nations- next
- g. Willing to attend any council meeting to review recommendations

### 4) PLWMP 2017 Update

- a. Background Studies
  - i) ABMI Phosphorous Model: will forward with plain language summary
  - ii) Summary of the Science: will forward with plain language summary
- b. Plain Language Summary - Early April
  - i) Watershed Lands
  - ii) Shore Lands
  - iii) Pigeon Lake
  - iv) Working Together
- c. Full Watershed Plan: draft under preparation
- d. Engagement Program- under construction
  - i) Expecting on line presentation, a survey, various meetings and workshops

### 5) April 29 Leaders Session, very important

- a. Presentation on Watershed Phosphorous Sources
- b. Opportunity for comment and input on recommendations



# In-Lake Technical Committee Report

APLM March 15, 2017 APLM Meeting

The In-Lake-Technical Committee presents the following report in regards to our progress for lake options to improve the health of Pigeon Lake.

At the workshop that was held on January <sup>13</sup>18, 2017, one of the items that was agreed to by the In-Lake Technical Committee was to provide a report that was requested by Alberta Environment and Parks (AEP) outlining our potential options to improve the health of our lake (Options as per our report presented on January 18th – attached below). The report to AEP will be prepared by Hutchinson Environmental Services Ltd. a consultant that has extensive knowledge of the Pigeon Lake problems. The report will be in the form of a “Terms of Reference” and when completed will be presented to the APLM board before presenting to AEP, and will answer all of the questions regarding our options that the board is asking.

January 18, 2017 report

The In-Lake Technical Committee (ILTC) is investigating in-lake options to reduce the frequency of the algae blooms caused by the high concentration of phosphorous in the lake. The report “Pigeon Lake Phosphorous Budget” prepared by the Alberta Government and the testing that was carried out by the ILTC shows that the majority of the phosphorous is found in the lake sediment. Experts have determined that for a high eutrophic lake such as we now have at Pigeon Lake, there will not be any improvement with the algae problem without in lake intervention to either remove or sequester the phosphorous in the sediments. Based on this information, methods to sequester the phosphorous are being investigating by the ILTC. The ecosystem of the lake is very complex therefore the science of the options must be thoroughly assessed to ensure that any treatment recommended will be in the best interests of the residents and users and not endanger the fish, birds or wildlife of Pigeon Lake

The present water elevation at the lake is very low – about 0.45 m or 18 inches below the weir elevation. With the possible advent of low snowfall this winter and average precipitation this next year, the water level could recede even further. To ensure that the recreational value of the lake is maintained or improved in the long term, continuing water transfer is being investigated by the ILTC. At this time, a potential source of compatible water has been identified.

Regards,

The Inlake Technical Committee

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14 March 2017

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## **TOWARDS EMPIRICAL FORECASTING OF CYANOBACTERIAL BLOOMS IN PIGEON LAKE AND OTHER LAKES OF CENTRAL ALBERTA UNDER A CHANGING CLIMATE**

The primary objective of our proposed research is to develop a predictive model for cyanobacterial blooms based on the measured environmental drivers of the coupling of mid-lake and beach cyanobacterial cell counts. We propose to extend our on-going use of advanced flow cytometry (FlowCAM) to quantify cyanobacterial cell counts in beach samples to also enumerate archived mid-lake phytoplankton samples collected monthly (May – September) from Pigeon, Crane, Laurier, Minnie, Moose, and Skeleton lakes by Alberta Lakes Management Society's program LakeWatch since 2012. The underlying rationale of our proposed research is that more reliable environmental forecasting of cyanobacterial blooms is possible using mid-lake data because is not confounded by more stochastic events that simply result from changes in wind direction. In addition, off-shore cyanobacterial dynamics are considered to be the earliest and most sensitive indicators of cyanobacterial blooms before they subsequently accumulate along shorelines.

### **BACKGROUND**

The seemingly unpredictable nature of cyanobacterial blooms represents a major challenge for models attempting to make predictions at their occurrences in lakes. Forecasting models based on monitoring of lakes have demonstrated that total phosphorus (TP) and total nitrogen (TN) concentrations are the best predictors of cyanobacterial dominance and biomass. Nevertheless, TN and TP often explain only ~40% of the variation in cyanobacterial abundance and taxonomic composition across lakes and over time, attesting to how adaptive these harmful algae are to environmental change. The power of these predictive models could however be improved by exploring the explanatory potential of other measured environmental variables, such as water temperature, solar irradiance, wind speed, and grazer abundance, and also consideration of the physiological traits of the cyanobacteria (e.g., photoadaptation, nitrogen fixation and storage, cellular elemental stoichiometry). Here, cyanobacteria are well known to respond positively to rising temperatures and calm, sunny surface water conditions. Further, several lines of evidence reveal that a synergistic interaction between climatic variables and excess nutrient inputs (i.e. eutrophication) may explain the increasing prevalence of cyanobacterial blooms in temperate to subarctic lakes. Finally, the relative importance of these

5x



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Date

I have developed a comprehensive expertise in the areas of pure and applied algal biology over the past 27 years. I use high performance liquid chromatography in combination with light microscopy and advanced flow cytometry (FlowCAM™) to quantify growth and taxonomic responses by phytoplankton to environmental changes in prairie, boreal, alpine, and arctic lakes. To date, I have published 72 peer-reviewed aquatic papers in top-ranked international journals, received ~\$2 million in research funding, and trained four postdoctoral researchers, 12 PhDs, 16 MScs, and 36 undergraduate Honours students. I also instruct undergraduate aquatic courses, such as the Biodiversity and Ecosystem Function of Algae (BOT 330), Freshwater Ecology (BIOL 364) and its companion course Methods in Freshwater Ecology (BIOL 365). Currently, I am collaborating with Dr Mark Lewis (Department of Mathematics and Statistics, University of Alberta) and PhD student Christopher Heggerud on his project to generate a mechanistic model of cyanobacterial blooms based on cellular elemental stoichiometry. I am also on the Board of Directors of the Alberta Lake Management Society and the former senior editor (2007 – 2016) of the Canadian Journal of Fisheries and Aquatic Sciences.

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Date

I am an expert in the biology of freshwater algae, including the cyanobacteria. I have been the key individual providing taxonomic information of HABs in Alberta lakes to AHS over the past four years. Over the past 25 years, I have received taxonomic training from renowned senior scientists, including David Findlay (Canadian Freshwater Institute), Hedy Kling (Canadian Freshwater Institute), and Takashi Sawa (University of Toronto). I continue to update and advance his taxonomic expertise through participation in several discussion groups and meetings. I have provided taxonomic services to numerous governmental agencies (e.g., Agricultural Canada, Environment Canada, Health Canada, Parks Canada and Saskatchewan Water Authority), industry (AECOM, EPCOR, Hutchinson Environmental Consultants), academic institutions (University of British Columbia, University of Regina, University of

# Summary of APLM 2017 Goals

Per replies for Summer Villages

- Lake issues
  - Addition of iron to lakes as a potential for fighting blue-green algae be given to the in-lake technical committee to consider as an alternative
  - Municipalities to do a concerted effort to remove the noxious weed, the Common Tansy
  - Look at fisheries for Pigeon Lake – invite new Fisheries biologist to attend a meeting
- Support for the development of the Pigeon Lake Watershed Management Plan and the associated Intermunicipal Development Plan (IDP), including common development standards for all municipalities
- Stay aware of changes to the MGA amendments, and where we could work together
- Have APLM Board Members attend the PLWA meetings
- Create a communications policy
- Create a Code of Conduct policy for APLM & committee members
- Establish term limits on executive positions

Estimates of the economic value of ambient recreational waters in Alberta are sparse and dated. McNaughton R, 1994, is the only peer-reviewed publication that attempts to attribute value to recreational lakes in Alberta, and this publication focuses primarily on revenue generated from park attendance at specific locations. In his thesis, Bewer R, 2012, did a more comprehensive analysis of the recreational value of Chestermere Lake, Alberta; however, this represents only a single location. Combined, these two documents provide the only accessible resources that attempt to place a value on Alberta ambient recreational water, and that value is estimated to range between \$500,000 and \$1,000,000 annually per location (McNaughton R, 1994). Unfortunately, neither of these two assessments account for the much broader economic value of recreational waters in Alberta. Neither account for any local economy the centers on tourist activities of lakegoers; local business revenue, rentable accommodations, park attendance fees collected from camping permits or fishing licenses are all important aspects of the economic value of recreational waters. Moreover, investments associated with maintenance of these resources are also important to consider. Beach and park maintenance, water quality monitoring, and preventative programs to keep these waters free of invasive plants and animals must also be considered, along with property values associated with summer village communities.

Targeted assessments have been undertaken to associate costs with invasive species introductions that threaten Albert's \$14 billion water infrastructure; invasive mussels alone are estimated to cost Alberta \$75 million annually if they gain a foothold in the province (Neupane A, 2013). Assessments have also been performed to understand the economic value of recreational fishing, which is estimated at ~\$8.3 billion across Canada (Fisheries and Oceans, 2010). While these estimates of cost and value are important for informing decisions related to the particular issue, they could actually be considered within a larger economic framework that places value on all aspects of ambient recreational waters. An important advantage associated with understanding the broader economic value of Alberta recreational water is that assessments can be undertaken to better understand the effects of policy changes, weather and climactic events, and beach/lake advisories on the various economic players.

This aim of this project is to cast a wide net to collect as much data related to the economics of Alberta recreational water as possible. Our specific objective is to better understand how beach/lake advisories that are posted for cyanobacteria blooms impacts economic aspects of Alberta lakes. Three broad categories have been established to identify the data collected as being relevant to either a) local lake economies, b) Provincial park economies, or c) property values at summer villages. The study team had identified these three categories as being those aspects of the local lake economy that are likely to be most affected by an advisory. The study approach will be to accumulate data on each category from at least 10 lakes in Alberta that are routinely affected by cyanobacterial blooms, and then 10 additional lakes that have not suffered from a confirmed bloom for at least the past 10 years. Ideal data from each of the three categories would be:

A) Local economies:

- a. Revenue data from local businesses – ideally 2000 → present



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## OPINION COLUMN

# Dealing with blue/green algae

Mark Smith/MLA for Drayton Valley-Devon  
Tuesday, February 7, 2017 1:03:08 MST PM

Strong communities are built around people and vision. If the people in a community work at establishing good relationships and have a common vision then there will be a strong sense of community and together the community will have the ability to address and overcome any of the obstacles that they may face.

It has been my privilege to serve the Drayton Valley-Devon constituency and in doing so I have been able to meet many amazing individuals who dedicate their many talents and a great deal of their time towards making their local communities across the Drayton Valley-Devon Constituency exceptional places to live. The people I am most impressed by are the citizens that see a problem and work together with other citizens to try and solve that problem.

Life is not without challenges and one of the challenges that we face in this constituency is the blue-green algae problem at Pigeon Lake that is adversely affecting the enjoyment of this recreational jewel in the middle of the constituency. Over the last 19 months that I have served as an MLA I have come to admire the efforts of the many people that are working together collectively to try and address the adverse effects of blue-green algae blooms at Pigeon Lake.

While there are many groups and players involved I would like to focus on two groups today: the Alliance of Pigeon Lake Municipalities and the Pigeon Lake Watershed Association. The various Pigeon Lake municipalities are working together through APLM along with scientists and provincial government stakeholders to address the in lake issues and the PLWA has drawn together a wide variety of citizens and experts to address the surrounding watershed issues as they impact Pigeon Lake. Together these two groups work closely with each other and with other local and provincial stakeholders to identify effective solutions to our common problem.

I have had the pleasure of working with people like Brian Waterhouse and Susan Ellis and the boards of their two groups. Their dedication to research and to cooperation and to education are slowly but surely moving us forward towards some lasting solutions to the blue-green algae problem.

Eco-systems are complex, the blue-green algae problem is complex and the solutions will also be complex. It is the biggest lake in central Alberta, almost 100 square kilometers with twice that land draining into it. Scientific data, such as that by the Bio Monitor Institute, helps to focus the efforts to reduce the nutrients that run off from the watershed into Pigeon Lake. These groups are educating residents by developing materials such as their Alberta Clean Run Off Guide (find on plwmp.ca), on how best to add landscape approaches to their yards and what deep-rooted plants to grow from grass to bushes in order to slow and filter the nutrients that run off and feed the lake

10:59 AM

2017-03-14

Accrual Basis

# Alliance of Pigeon Lake Municipalities

## Balance Sheet

As of 31 January 2017

	<u>31 Jan 17</u>
<b>ASSETS</b>	
Current Assets	
Chequing/Savings	
ATB Financial	3,561.81
Total Chequing/Savings	<u>3,561.81</u>
Total Current Assets	<u>3,561.81</u>
<b>TOTAL ASSETS</b>	<u><u>3,561.81</u></u>
<b>LIABILITIES &amp; EQUITY</b>	
Equity	
Opening Balance Equity	6,341.08
Retained Earnings	-2,502.23
Net Income	-277.04
Total Equity	<u>3,561.81</u>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<u><u>3,561.81</u></u>

11:00 AM  
2017-03-14  
Accrual Basis

**Alliance of Pigeon Lake Municipalities**  
**Profit & Loss**  
January 2017

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	<u>Jan 17</u>
Ordinary Income/Expense	
Income	
Bank Interest	0.33
Total Income	<u>0.33</u>
Gross Profit	0.33
Expense	
Administrative Expense	
Secretarial	210.00
Total Administrative Expense	210.00
Bank Service Charges	5.00
Travel Expense	62.37
Total Expense	<u>277.37</u>
Net Ordinary Income	<u>-277.04</u>
Net Income	<u><u>-277.04</u></u>



Statement date January 31, 2017

Transit number 08289-219

Customer number 0000097989

Cheque images 1

Page number 1 of 3

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ALLIANCE OF PIGEON LAKE MUNICIPALITIES  
C/O June Boyda  
10 Norwood Close  
Wetaskiwin AB CA T9A 1K2

### Your ATB Financial Branch

08289 Thorsby Branch  
4816 50 St  
Thorsby AB  
TOC 2P0

If you have any questions, contact us at  
1 800 332-8383 or visit us at  
[www.atb.com](http://www.atb.com)

### A summary of Deposit Account Business Savings Account

00104773624		Transit # 08289-219
Your balance forward on Dec 31, 2016		\$3,996.35
Money out of your account (2 items)	-	\$434.87
Money into your account (1 item)	+	\$0.33
<b>Your closing balance on Jan 31, 2017</b>	<b>=</b>	<b>\$3,561.81</b>

### Details of your account transactions

Date	Description	Money out of your account (\$)	Money into your account (\$)	Balance (\$)
Dec 31	Balance forward			\$3,996.35
Jan 24	Cheque #0000000000055	\$429.87		3,566.48
Jan 31	Interest Payment		\$0.33	3,566.81
Jan 31	Fee Service	\$5.00		3,561.81
Jan 31	Closing balance			\$3,561.81

Find an error? Give us a call or drop by a branch. We'll take care of it.

**Alliance of Pigeon Lake Municipalities**  
**Reconciliation Detail**  
ATB Financial, Period Ending 2017-01-31

Type	Date	Num	Name	Clr	Amount	Balance
<b>Beginning Balance</b>						3,996.35
<b>Cleared Transactions</b>						
<b>Cheques and Payments - 2 items</b>						
Bill Pmt -Cheque	2017-01-18	0055	Extreme Manageme...	X	-429.87	-429.87
Cheque	2017-01-31			X	-5.00	-434.87
Total Cheques and Payments					-434.87	-434.87
<b>Deposits and Credits - 1 item</b>						
Deposit	2017-01-31			X	0.33	0.33
Total Deposits and Credits					0.33	0.33
Total Cleared Transactions					-434.54	-434.54
Cleared Balance					-434.54	3,561.81
Register Balance as of 2017-01-31					-434.54	3,561.81
<b>New Transactions</b>						
<b>Cheques and Payments - 1 item</b>						
Bill Pmt -Cheque	2017-03-15	0056	Extreme Manageme...		-377.37	-377.37
Total Cheques and Payments					-377.37	-377.37
Total New Transactions					-377.37	-377.37
<b>Ending Balance</b>					<b>-811.91</b>	<b>3,184.44</b>