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**Minutes of Meeting No. 1**  
**CSA/ICC B805 Joint Technical Committee on Rainwater Collection**  
**System Design and Installation**  
**Wednesday and Thursday, April 9-10, 2014**  
 Hyatt Regency O'Hare, Chicago, Illinois, USA

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<b>Action Items</b>		
<b>No.</b>	<b>Action, Person Responsible</b>	<b>Status, Due Date</b>
AI.1.1	Develop seed document framework. (Shawn Martin, Paul Gulletson with oversight from Alf Durnie and Phil Parisi)	New, 7/6/2014
AI.1.2	Post Health Canada document Canadian Guidelines for Domestic Reclaimed Water for Use in Toilet and Urinal Flushing on the CSA portal (Shawn Martin)	New, 5/1/2014
AI.1.3	Seek permission from the ARCSA Board of Directors to use material from the ARCSA Rainwater (Doug Pushard)	New, 7/6/2014
AI.1.4	Post full committee roster with full contact information on CSA Portal (Shawn Martin)	New, 5/1/2014
AI.1.5	Setup Task Forces with necessary resources (scheduling assistance, conference lines, webinar) to begin holding meetings (Shawn Martin, Paul Gulletson)	New, 4/14/2014
AI.1.6	Fill vacant User Category committee seat. (Shawn Martin, Paul Gulletson)	New, ASAP
AI.1.7	Seek participants for task forces from stormwater industry, experts (Justin DeWitt – MWRD, Shawn Martin – NOWRA, EPA)	New, 5/1/2014



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Name	Affiliation	Day 1		Day 2	
		Pres	Abs	Pres	Abs
<b>Voting members</b>					
Dave Cantrell	Public Health-Seattle & King County, Seattle, WA	✓		✓	
Justin DeWitt	Illinois Department of Public Health, Springfield, IL	✓		✓	
Russell Jackson	RainHarvest Systems, Cumming, GA		✓		✓
Robert M. O'Donnell	Aquanomix, LLC, Davidson, NC		✓	✓T	
Philip F. Parisi	Jaros Baum & Bolles Consulting Engineers, New York, NY	✓		✓	
Doug Pushard	HarvestH2o.com, Santa Fe, NM	✓		✓	
Nancy Springer	Butte County Dept. of Development Services, Oroville, CA	✓		✓	
Mike Warren	Watertronics, Hartland, WI	✓		✓	
Chris Despina	Credit Valley Conservation, Mississauga, ON	✓		✓	
Pieter DeVries	UV Dynamics, London, ON	✓		✓	
Alf Durnie	Alberta Municipal Affairs, Edmonton, AB	✓		✓	
Duncan Ellison	Cheffell Associates, Rockland, ON		✓		✓
Khosrow Farahbakhsh	University of Guelph, Guelph, ON		✓		✓
Judy MacDonald	Health Canada, Ottawa, ON	✓		✓	
Ken Nentwig	Canadian Association for Rainwater Management (CANARM), Victoria, BC		✓		✓
Joe Rogers	Ontario Ministry of Municipal Affairs and Housing, Toronto, ON	✓		✓	
Penh Tov	Green Turtle Technologies, Ltd, Mississauga, ON	✓T		✓T	
	<b>Total Voting Members:</b>		<b>12</b>		<b>13</b>
<b>Alternates</b>					
None					
<b>Associates</b>					
Reuben Butterfield	RHo Solutions, Victoria, BC		✓		✓
Wayne Gallagher	City of Guelph, Guelph, ON	✓T		✓T	
Glenn MacMillan	Toronto and Region Conservation Authority, Woodbridge, ON		✓		✓
Linda Maley	Atlantis Water Management, Vancouver, BC		✓		✓
Zachary May	Ministry of Natural Gas Development & Responsible for Housing, Victoria, BC		✓		✓
Anthony Oosterveld	VIQUA - a Trojan Technologies Company, Guelph, ON		✓		✓
Troy Vassos	Golder Associates Ltd, Burnaby, BC		✓		✓
<b>Guests</b>					



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Dana Schmidt	Steel Tank Institute	✓		✓	
<b>CSA/ICC Staff</b>					
Shawn Martin	ICC, Pittsburgh, PA	✓		✓	
Paul Gulletson	CSA Group, Mississauga, ON	✓		✓	
Ed Wirtschoreck	ICC, Country Club Hills, IL	✓		✓	
Lauren Crane-Flynn	ICC, Country Club Hills, IL	✓		✓	

**Notes:**

(1) Individuals with ✓T participated via teleconference and web conference.

**M.1 Call to Order**

ICC Staff Secretariat, Shawn Martin, and CSA Staff Secretariat, Paul Gulletson welcomed the committee members and associates and called the meeting to order at 8:10 AM CDT on April 9, 2014. Staff began by noting the location of the emergency exits from the facility and other housekeeping comments were made.

**M.1.1 Quorum**

At the time of this meeting, the Joint Technical Committee (JTC) had 17 voting members.

On day 1, 12 were present at the meeting and therefore minimum quorum requirements (at least 50% of the voting members) were met. A maximum of 12 votes could be cast at the meeting and the minimum number of affirmative votes required for approvals was the greater of:

More than 50% of the voting membership:  $1/2 \times 17 = 8.5 \rightarrow \underline{9}$ , or  
 2/3 of the votes cast:  $2/3 \times 12 = 8$ , if all votes were cast

On day 2, 13 were present at the meeting and therefore minimum quorum requirements (at least 50% of the voting members) were met. A maximum of 13 votes could be cast at the meeting and the minimum number of affirmative votes required for approvals was the greater of:

More than 50% of the voting membership:  $1/2 \times 17 = 8.5 \rightarrow \underline{9}$ , or  
 2/3 of the votes cast:  $2/3 \times 13 = 8.7 \rightarrow \underline{9}$ , if all votes were cast

At the time of this meeting, the JTC matrix was balanced; therefore, the committee could make formal, binding decisions and cast votes. The following table shows the JTC matrix and membership by category:



<b>CSA/ICC B805 JTC Matrix &amp; Membership</b>		
<b>General/Regulatory Interest (G)</b>	<b>Producer Interest (PI)</b>	<b>User Interest (UI)</b>
<b>Min: 6, Max: 6</b>	<b>Min: 6, Max: 6</b>	<b>Min: 6, Max: 6</b>
1) Dave Cantrell	1) Russell Jackson	1) Chris Despins
2) Justin DeWitt	2) Ken Nentwig	2) Duncan Ellison
3) Alf Durnie	3) Robert M. O'Donnell	3) Khosrow Farahbakhsh
4) Judy MacDonald	4) Ms. Penh Tov	4) Philip F. Parisi
5) Joe Rogers	5) Pieter DeVries	5) Doug Pushard
6) Nancy Springer	6) Mike Warren	6)

**M.1.2 Committee member and guest self-introductions**

Staff introduced themselves and invited each attendee to introduce themselves. The contact information for all committee members can be found in Appendix A.

**M.1.3 Approval of the agenda for the meeting**

Doug Pushard moved to adopt the agenda for the meeting; Nancy Springer seconded the motion and it was carried unanimously. A copy of the agenda can be found in Appendix B.

**M.2 Introductory comments and background**

Paul Gulletson provided a brief overview of the CSA Group and its standards development process, which is accredited by Standards Council of Canada (SCC), for the benefit of those who have not yet participated in a CSA standard project. He also introduced the CSA Communities of Interest web portal which hosts the “Members Only Area” (MOA) – a private committee workspace which will be available for use by members as a repository for private committee documentation and a platform for collaboration between committee members. The URL for the Members Only Area is [https://community.csagroup.org/community/board\\_of\\_directors\\_cs192\\_bod/standards\\_policy\\_board\\_cs182\\_bod/construction\\_and\\_civil\\_infrastructure\\_a500\\_ssc/rainwater\\_harvesting\\_\(b805\)\\_b227\\_tc](https://community.csagroup.org/community/board_of_directors_cs192_bod/standards_policy_board_cs182_bod/construction_and_civil_infrastructure_a500_ssc/rainwater_harvesting_(b805)_b227_tc)

Mr. Gulletson then reviewed the official CSA Terms of Reference for the JTC. Following the review, Joe Rogers moved to endorse the CSA Terms of Reference; Phillip Parisi seconded the motion and it was carried unanimously.

The CSA overview presentation and committee Terms of Reference can be found on the Members Only Area.



Shawn Martin then provided an overview of the ICC and its ANSI accredited standard development process. The ICC overview presentation can be found on the Members Only Area. He reviewed the Project Initiation and Notification System (PINS) filing made by ICC to ANSI and published on April 1, 2011 in the ANSI Standards Action. He indicated that the standard development project had been initiated by ICC to meet a demonstrated need for additional specifications to support provisions relating to rainwater harvesting in the ICC model codes.

Dana Schmidt inquired about the relationship of the project to a standard recently created by ASPE, ARCOSA and IAPMO, ASPE/ARCOSA 63 Rainwater Catchment Systems. Mr. Martin described the common origin of the two projects how the two projects ultimately diverged. He stated that ICC and CSA studied the interface of the ASPE/ARCOSA standard and concluded that additional provisions were needed to address the interface between stormwater control systems and rainwater harvesting systems.

In reviewing ICC's standard development process, he and Mr. Gulletson compared the CSA and ICC processes. They noted that the standard development project would be conducted using a novel approach where both ICC and CSA standard development processes would be followed simultaneously using a single committee. Where differences existed between the processes and typical practices by each organization, the resolution was established in the CSA Terms of Reference and through an agreement between the two organizations. Mr. Gulletson and Mr. Martin noted that every effort would be made to develop a single document to meet the needs of both countries. However, where unique regulatory structures made this impossible, arrangements had been made to provide specific provisions for users in each country. Both emphasized, however, that this measure would be used only where absolutely necessary, and charged the committee to seek a single set of provisions wherever possible.

Mr. Martin also reviewed the public webpage provided to satisfy ICC's requirement that key information on the project be provided to the public. He indicated that the information on the ICC (public) page and the CSA (committee-only) page would be coordinated to prevent discrepancies. He also noted though, that some resource documents, such as the related CSA standards and IPC codes would only be made available on the CSA Members Only Area private webpage. These copyrighted documents would only be made available for committee use related to the standard development project.

Both Mr. Gulletson and Mr. Martin emphasized the importance of respecting the copyrights of any resource material. They indicated that copyrighted material should not be uploaded to the CSA website without the explicit permission of the copyright holder. Further, copyrighted material should not be included in the new standard without explicit permission.

### **M. 3           General discussion**

#### **M. 3.1       Standard scope and table of contents**

Mr. Gulletson and Mr. Martin facilitated a discussion of the scope of the project, beginning with the scope statement in the ANSI PINS filing and the scope of the Alberta Guidelines for Residential Rainwater Harvesting Systems.



The discussion addressed applicability to residential, commercial, industrial and agricultural installations. The subject of water quality criteria tied to specific applications was also identified as subject area of considerable need. The importance of coordination of rainwater harvesting systems with stormwater management systems was also emphasized by many committee members. Plus, the consensus of those present was to address both potable and non-potable applications.

The resulting scope statement was developed by the committee.

**Scope.** The provisions of this standard shall apply to the design, materials, and installation for rainwater harvesting systems for potable and nonpotable applications.

This Standard does not cover:

- a) process water systems for industrial or manufacturing purposes;
- b) water systems for agricultural processes; and
- c) rain barrels, as defined by the local authority having jurisdiction, not connected to the plumbing system.

An initial discussion was held regarding the proposed Table of Contents, and the construction of the two primary references documents, the Alberta Guidelines and the ICC Resource Document. Mr. Alf Durnie provided an overview of the table of contents of the Alberta Guidelines and the rationale used to develop it. Specifically, he noted that the document progressed from the point of collection to the point of use. He also indicated that the developing committee found it useful to provide the intent of each section, and provide both performance-based and prescriptive means of achieving it.

Mr. Martin did the same with the ICC Resource Document, and also referenced the structure of the ICC codes that served as the basis for its organization. After some discussion, the committee elected to focus early efforts on Task Forces addressing specific topics. The staff secretariats were charged with the development of a seed framework document in conjunction with the co-chairs for review and use at the next committee meeting. Mr. Martin concurred with Mr. Durnie's points about the usefulness of recording the objective of each section during development. He cautioned the group that this information could not be placed in the main body of ICC standards since it is considered non-normative. He explained that ICC's practice has been to exclude commentary or explanatory information from the main body, and instead include it in Appendices (which are not mandatory in ICC standards) or in a separate commentary. Mr. Gulletson noted that CSA typically takes a similar approach whereby informative (non-mandatory) annexes can be included for information or best practices.

Mr. Pushard invited the committee to review the ASPE/ARCSA 63 document and also offered to seek the permission from the copyright owners to reference and utilize material from the standard or its predecessor document.

### **M.3.2 Standard use and application**





In the course of the discussion regarding the scope, the committee felt it necessary to seek consensus on several terms to inform their use in the scope statement. The group discussed whether the term “rainwater collection system” or “rainwater harvesting system” was more appropriate in this context. Ultimately, “rainwater harvesting system” was selected over “collection” as it more appropriately conveyed the intent to collect water for beneficial use, rather than for management, sequestration or disposal purposes. Using the definition from the 2015 International Plumbing Code as a basis, the following definition was created.

**RAINWATER HARVESTING SYSTEM.** System intended to collect, convey, store, treat, and deliver rainwater for use. Also known as “rainwater collection system” or “rainwater catchment system.”

Further, the term “rainwater” was discussed, along with its relationship to the term “stormwater”. Ultimately, the consensus of the group was to utilize the definition from the 2015 IPC, which reads as follows.

**RAINWATER.** Water from natural precipitation.

Several options were discussed for a stormwater definition and its distinction from rainwater. The following two options were considered and discussed, and it was agreed that a Task Force should further address this issue. One concept discussed would have placed the terms “stormwater” and “surface water” as subsets of the term “rainwater”.

1. **STORM WATER.** Rainwater flowing over land or surfaces prior to collection, evaporation, percolation into the ground, or entering surface waters.
2. **STORM WATER.** Water or natural precipitation diffused over the surface of the ground until it evaporates, is absorbed by the land or reaches channels where water naturally flows.

Last, the importance of maintenance of rainwater harvesting systems was discussed. But, since they fall outside the purview of a building official, the group elected to include the topics in a non-normative appendix to be entitled as follows:

**Appendix A: Maintenance and field testing of non-potable water systems after the initial installation.**

#### **M. 4 Selection of committee co-chairs**

Selection of committee leadership was accomplished during the April 10 portion of the meeting. In accordance with ICC’s CP-7 policy and the approved CSA Terms of Reference, the committee members selected leaders. In keeping with the joint, bi-national nature of the project, the committee chose to elect two co-chairs, one from the U.S. and one from Canada.



Each committee member was invited to consider standing for the leadership roles, and Alf Durnie, Philip Parisi, and David Cantrell expressed interest. Prior to the meeting, committee members were provided with the biography information provided by each candidate. At the meeting each member in attendance was provided with a ballot, which was then collected and counted. The results were as follows:

- Alf Durnie: 13 votes
- Philip Parisi: 7 votes
- David Cantrell: 6 votes

Therefore, Mr. Durnie was elected as the Canadian co-chair, and Mr. Parisi was elected U.S. co-chair. The co-chairs agreed to alternate responsibility for the primary role of facilitating future committee meetings.

#### **M.5 Task groups (task forces)**

The committee, led by Mr. Parisi and Mr. Durnie then, held a discussion regarding the Task Forces to be created to begin the work of drafting the provisions of the standard. The results are contained within the following table. While numerous task forces were slated, only those receiving a top ranking of 1 were formally initiated by the committee during the first meeting. The remaining task forces were to be created as the work of the first groups was completed or progressed sufficiently. For the first task forces, volunteers were collected and chairs designated for each, as shown in the table below.

Additionally, the group discussed several considerations to be incorporated by each of the task forces as they conducted their work, that are listed below:

- Residential/commercial distinctions
- Potable/non-potable distinctions
- Coordinate and harmonize US/Canadian requirements wherever possible.
- Life cycle analysis, durability, source stability.

Mr. Gulletson and Mr. Martin noted that the work of the task forces would be conducted largely by conference call and webinar. Mr. Gulletson encouraged the groups to make use of the CSA Members Only Area as a repository of documents and collaborative workspace for their activities.





Topic	Members	Rank	Notes
Storage Sizing	Despins (chair), Springer, Rogers, Tov, Jackson	1	Include firefighting concerns (see Hawaii, p., 45). Sizing for water storage (short/long term, water efficiency target, fire reserve, etc), sizing for stormwater management (volume target, draw-down rate, mass balance). Yield coefficients. Reliability.
Treated Water Quality (Output), Applications & End Use	Jackson (chair), Tov, Warren, O'Donnell, Devries, Despins, MacDonald, Cantrell, Ellison, Gallagher, Nentwig	1	Categorize by application/use. Data center cooling, cooling tower makeup, landscape irrigation (surface/subsurface), toilet/urinal flushing, pool/spa fill, hose bibbs, vehicle washing, trap priming, automatic fire sprinklers, clothes washing
Source Water Quality (Input)	Tov (chair), O'Donnell, Cantrell, Springer, Ellison, Despins, Gallagher, Farahbakhsh	1	Characterize stormwater/rainwater differentiation. Solidify definitions. Integrate stormwater control, rainwater reuse.
System Component Design & Materials	Cantrell (chair), Schmidt, Parisi, Rogers	2	Collection, Piping, Tanks, Collection/Conveyance, Conveyance, Piping, Treatment/Disinfection. Durability, safety, etc. Interface/coordinate with existing roof drain requirements in code (tie in with exist systems?). Siphonic roof drain system tie-ins.
Treated Water Storage			Duration, processing: batch vs. real-time
Control Systems and Design	Pushard (chair), Warren, DeVries, Nentwig, Despins, O'Donnell	1	Safety, listings
Operation, Maintenance, Decommissioning			Include commissioning. Place maintenance in Appendix. Address system abandonment.
Testing			Startup, final, periodic



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Backflow/Cross-Contamination Prevention			Airgap vs. direct connect
Special Design Considerations (environmental, climate etc.)			Climate (e.g. freezing), volcanoes, pollution, seismic/earthquake, vegetation, vermin/insects

## M.6 Schedule

Mr. Parisi and Mr. Durnie introduced a discussion of the general schedule of the project. The group expressed an interest in having a standard available for potential reference in the 2018 ICC codes. Mr. Gulletson noted that it will not be possible to publish in time to be referenced in the 2015 National Plumbing Code of Canada or National Building Code of Canada. The Canadian National Model Codes are on a 5-year publication cycle. In the meantime, the standard can still be adopted at the provincial and municipal levels upon publication.

Mr. Martin explained that ICC develops 15 model codes over a three year period in three groups – A, B, and C. The final group of 2015 codes is being completed in the calendar year 2014, consisting of the 2015 International Green Code (IgCC). However, the development of the 2018 codes would begin in the calendar year 2015 with Group A, which would include several codes of interest, including the International Plumbing Code (IPC), International Building Code (IBC) and International Residential Code (IRC) – Plumbing. Mr. Martin noted that for the rainwater harvesting standard to be eligible for reference, the committee would need to submit code change proposals to ICC by January, 2015 for the 2018 Group A Codes. He explained that ICC standards are not automatically placed in ICC codes. Rather, it falls to individuals or groups to submit them (and any supporting language) as changes to codes, where they are considered as part of the regular code change process. In order to be successfully referenced in the code, the standards must be published. The first hearing of changes to the IPC and IBC will be held April 26 – May 3, 2015. If the standard was proposed but not yet complete by that time, any proposals referencing it would likely be disapproved. However, the committee would then have an opportunity to complete the standard and submit a public comment in time for the Public Comment Hearing held September 30 – October 7, 2015. The full development schedule for the 2018 codes can be found at [http://www.iccsafe.org/cs/codes/Documents/2015-2017Cycle/2015\\_2016\\_2017%20%20Schedule\\_Mar\\_2014.pdf](http://www.iccsafe.org/cs/codes/Documents/2015-2017Cycle/2015_2016_2017%20%20Schedule_Mar_2014.pdf)

The committee therefore used the 9/2015 publication deadline to establish a tentative schedule as follows:

- June 17-18, 2014: **Meeting #2**
- Late Aug 2014: **Meeting #3**
- November 27, 2014: Release draft for Public Review and Comment – round 1 (60 days)
- Feb 2015: **Meeting #4** to address Public Review comments



- Mar 2015: Release draft for Public Review and Comment – round 2\* (45 days)
- Apr 2015: Comprehensive edit formatting of the draft by CSA Editorial Services
- Jun 2015: 30-day ballot to approve the standard
- Jul 2015: **Meeting #5** to resolve ballot
- Aug 2015: Draft submitted to CSA Editorial Services for final production
- Sep 2015: Publication

*\*Note: ICC's ANSI process requires any changes to the draft to be posted to public review until no further comments are received. It is anticipated that at least two rounds of public review will be required.*

It was noted that the proposed schedule is quite aggressive and calls for swift action by the committee. In order to accomplish this, the committee set the second consensus committee meeting for **June 17 and 18, 2014 to be held in Mississauga, ON** at the CSA Group's facilities. Further, the committee agreed to hold a short **conference call on Monday, June 2, 2014** with the task force chairs and committee chairs to set the agenda for Meeting #2 and review task force progress. Working draft materials from the task forces are to be prepared by that date for consideration and preparation of Meeting #2.

## **M.7          Adjourn**

The meeting was adjourned at 4:50 PM on day 1 and resumed at 8:10 AM on day 2. Upon completion of scheduling, the chairs invited a motion to adjourn on day 2. Mr. Rogers made a motion to adjourn the meeting and Mr. Cantrell seconded the motion. The motion was carried unanimously. The meeting adjourned at 2:00 PM CDT, April 10, 2014.

**CSA/ICC B805** Joint Technical Committee on Rainwater Collection System  
Design and Installation (IS-RCSDI)  
**Minutes of Meeting No. 1**; held on April 9-10, 2014  
Issued: May 27, 2014  
CSA File: B227-23  
ICC File:



## **Appendix A**

### **Committee Member Coordinates**

## -----IMPORTANT NOTICE-----

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2014-5-27 2:45:46 PM

**MEDS Full Committee**

File No.: B227

Class: 9426

Committee Name: Rainwater Collection Systems (B805)

1	Name: Mr. A. (Alf) Durnie Title: Chief Inspector / Administrator Company: Alberta Municipal Affairs Address: Public Safety Division 10155-102 St Flr 16 Edmonton, AB T5J 4L4 Canada Business : 403 823-1680 Cell Phone : 403 820-2681 Fax 1 : 403 823-1756 Fax 2 : 780 427-8686 E-Mail: alf.durnie@gov.ab.ca Position: C Status: V Comments: Co-Chair dtd Apr 30/14 (Toll free: 1-866-421-6929)	Membership ID: 17739 Language: English Mail Stop: E-Mail 2: Matrix: RG
2	Name: Mr. P. F. (Phillip) Parisi Title: Director, Plumbing and Fine Products Company: Jaros Baum & Bolles Consulting Engineers Address: 80 Pine St, Flr 12 Manhattan, NY 10005 USA Business : 212 530-9409 Cell Phone : 917 733-9295 Fax 1 : 212 269-5894 E-Mail: parisip@jbb.com Position: C Status: V Comments: Co-Chair dtd Apr 30/14	Membership ID: 31876 Language: English Mail Stop: E-Mail 2: UI Matrix:
3	Name: Mr. D. (Dave) Cantrell Title: Chief Plumbing Inspector Company: Public Health-Seattle & King County Address: 401 Fifth Ave, Suite 1100 Seattle, WA 98104-1818 USA Business : 206 263-8493 Cell Phone : 206 510-4378 E-Mail: dave.cantrell@kingcounty.gov Position: M Status: V	Membership ID: 31861 Language: English Mail Stop: E-Mail 2: RG Matrix:
4	Name: Mr. C. (Chris) Despina Title: Water Resources Specialist Company: Credit Valley Conservation Authority Address: 1255 Old Derry Rd Mississauga, ON L5N 6R4 Canada Business : 905 670-1615 x288 E-Mail: cdespins@creditvalleyca.ca Position: M Status: V	Membership ID: 31258 Language: English Mail Stop: E-Mail 2: UI Matrix:
5	Name: Mr. P. (Pieter) deVries Title: President Company: UVDynamics Inc. Address: 315 Neptune Cres London, ON N6M 1A9 Canada Business : 1 800 667-4629 Fax 1 : 519 452-1701 E-Mail: p.devries@uvdynamics.com	Membership ID: 28261 Language: English Mail Stop: E-Mail 2:

Position:	M	Status:	V	Matrix:	PI
6	Name: Mr. J. (Justin) DeWitt Title: Chief of General Engineering Company: Illinois Department of Public Health Address: 525 W Jefferson St Springfield, IL 62761 USA Business : 217 782-5830 Fax 1 : 217 785-5897 E-Mail: justin.dewitt@illinois.gov Position: M Status: V			Membership ID: 31870 Language: English Mail Stop:	
				E-Mail 2: Matrix: RG	
7	Name: Mr. T. D. (Thomas Duncan) Ellison Title: Company: Cheffell Associates Address: 136 Edwards St, Unit 202 Rockland, ON K4K 1T5 Canada Business : 613 446-4219 Cell Phone : 613 882-4219 E-Mail: duncan.ellison@videotron.ca Position: M Status: V			Membership ID: 9698 Language: English Mail Stop:	
				E-Mail 2: Matrix: UI	
8	Name: Dr. K. (Khosrow) Farahbakhsh Title: Associate Professor Company: University of Guelph Address: School of Engineering Albert A. Thornbrough Bldg Guelph, ON N1G 2W1 Canada Business : 519 824-4120 x53832 Fax 1 : 519 836-0227 E-Mail: khosrowf@gmail.com Position: M Status: V			Membership ID: 28002 Language: English Mail Stop:	
				E-Mail 2: khosrowf@uoguelph.ca Matrix: UI	
9	Name: Mr. R. (Russell) Jackson Title: Vice President of Sales Company: RainHarvest Systems, LLC Address: 6075 Parkway North Dr Cumming, GA 30040 USA Business : 770 889-2533 Fax 1 : 770 889-2577 E-Mail: russ@rainharvest.com Position: M Status: V			Membership ID: 31873 Language: English Mail Stop:	
				E-Mail 2: Matrix: PI	
10	Name: Ms. J. A. (Judy) MacDonald Title: Water Quality Engineer Company: Health Canada Address: Water and Air Quality Bureau 269 Laurier Ave W Ottawa, ON K1A 0K9 Canada Business : 613 957-1507 Fax 1 : 613 952-2574 E-Mail: judy.macdonald@hc-sc.gc.ca Position: M Status: V			Membership ID: 8327 Language: English Mail Stop: AL 4903D	
				E-Mail 2: Matrix: RG	
11	Name: Mr. K. (Ken) Nentwig Title: Governor, BC Jurisdiction Company: Canadian Association for Rainwater Management Address: 747 Princess Ave, 18 Victoria, BC V8T 1K5 Canada Business : 250 999-2472 E-Mail: ken@canarm.org Position: M Status: V			Membership ID: 31244 Language: English Mail Stop:	
				E-Mail 2: Matrix: PI	
12	Name: Mr. R. (Robert) O'Donnell Title: Partner Company: Aquanomix, LLC Address: 710 Northeast Dr, Suite 10 Davidson, NC 28036 USA Business : 704 402-4373 E-Mail: rodonnell@aquanomix.com Position: M Status: V			Membership ID: 31864 Language: English Mail Stop:	
				E-Mail 2: Matrix: PI	



13	Name:	Mr. D. (Doug) Pushard	Membership ID:	31865
	Title:	Founder	Language:	English
	Company:	HarvestH2o.com	Mail Stop:	
	Address:	537 Garcia St Sante Fe, NM 87505 USA		
	Business :	505 603-5498		
	E-Mail:	doug@harvesth2o.com	E-Mail 2:	
	Position:	M Status: V	Matrix:	UI
<hr/>				
14	Name:	Mr. J. (Joe) Rogers	Membership ID:	22225
	Title:	Building Code Advisor	Language:	English
	Company:	Ontario Ministry of Municipal Affairs and Housing	Mail Stop:	
	Address:	Building & Development Branch 777 Bay St Flr 2 Toronto, ON M5G 2E5 Canada		
	Business :	416 585-6753		
	Cell Phone :	416 910-4464		
	Fax 1 :	416 585-7455		
	E-Mail:	joseph.rogers@ontario.ca	E-Mail 2:	
	Position:	M Status: V	Matrix:	RG
<hr/>				
15	Name:	Ms. N. (Nancy) Springer	Membership ID:	31859
	Title:	Building Division Manager	Language:	English
	Company:	Butte County Department of Development Services	Mail Stop:	
	Address:	7 County Center Dr Oroville, CA 95965 USA		
	Business :	530 538-7159		
	Cell Phone :	530 693-1559		
	E-Mail:	nspringer@buttecounty.net	E-Mail 2:	
	Position:	M Status: V	Matrix:	RG
<hr/>				
16	Name:	Ms. P. (Penh) Tov	Membership ID:	25114
	Title:	Business Development Manager	Language:	English
	Company:	Green Turtle Technologies Ltd.	Mail Stop:	
	Address:	2596 Dunwin Dr Mississauga, ON L5L 1J5 Canada		
	Business :	416 966-9400		
	Cell Phone :	416 319-1799		
	Fax 1 :	877 966-8411		
	E-Mail:	ptov@greenturtletech.com	E-Mail 2:	
	Position:	M Status: V	Matrix:	PI
	Comments:	Maternity leave email dtd Nov 7/12 (T: (877) 966-9444)		
<hr/>				
17	Name:	Mr. M. (Mike) Warren	Membership ID:	31869
	Title:	Product Manager	Language:	English
	Company:	Watertronics, Inc.	Mail Stop:	
	Address:	525 East Industrial Dr Hartland, WI 53029 USA		
	Business :	414 640-2496		
	Cell Phone :	414 640-2496		
	E-Mail:	mike.warren@watertronics.com	E-Mail 2:	
	Position:	M Status: V	Matrix:	PI
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18	Name:	Mr. R. (Reuben) Butterfield	Membership ID:	31460
	Title:	Owner	Language:	English
	Company:	RHo Solutions	Mail Stop:	
	Address:	1581 Hillside Ave, Suite 396 Victoria, BC V8T 2C1 Canada		
	Business :	250 857-4746		
	E-Mail:	reuben@rhosolutions.ca	E-Mail 2:	
	Position:	M Status: A	Matrix:	ZZ
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19	Name:	Mr. W. (Wayne) Galliher	Membership ID:	31410
	Title:	Project Manager Water Conservation	Language:	English
	Company:	City of Guelph	Mail Stop:	
	Address:	1 Carden St Guelph, ON N1H 3A1 Canada		
	Business :	519 822-1260 x2106		
	Fax 1 :	519 822-8837		
	E-Mail:	wayne.galliher@guelph.ca	E-Mail 2:	
	Position:	M Status: A	Matrix:	ZZ

20	Name: Mr. G. (Glenn) MacMillan Title: Sr. Mgr, Water and Energy Company: Toronto and Region Conservation Authority Address: Watershed Management Div 9520 Pine Valley Dr Woodbridge, ON L4L 1A6 Canada  Business : 289 268-3901 Cell Phone : 416 520-2704 Fax 1 : 416 303-8060 E-Mail: gmacmillan@trca.on.ca Position: M Status: A	Membership ID: 27314 Language: English Mail Stop:    E-Mail 2: Matrix: ZZ
<hr/>		
21	Name: Ms. L. (Linda) Maley Title: Business Development North America Company: Atlantis Water Management Address: Granville Park PO Box 60583 Vancouver, BC V6H 4B9 Canada  Business : 604 817-8670 E-Mail: linda@atlantis-america.com Position: M Status: A	Membership ID: 31570 Language: English Mail Stop:    E-Mail 2: Matrix: ZZ
<hr/>		
22	Name: Mr. Z. D. (Zachary) May Title: Codes Administrator Company: Ministry of Natural Gas Development & Responsible for Housing Address: Bldg & Safety Stds Br in the Office of Housing & Constr. Stds PO Box 9844, Stn Prov Govt Victoria, BC V8W 9T2 Canada  Business : 778 679-9641 Cell Phone : 778 679-9641 E-Mail: Zachary.May@gov.bc.ca Position: M Status: A	Membership ID: 31465 Language: English Mail Stop:    E-Mail 2: Matrix: ZZ
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23	Name: Mr. A. (Anthony) Oosterveld Title: Mgr., Product Support/Customer Service Company: VIQUA - a Trojan Technologies Company Address: 425 Clair Rd W Guelph, ON N1L 1R1 Canada  Business : 519 763-1032 x257 Cell Phone : 519 317-0428 Fax 1 : 519 763-5069 E-Mail: aoosterveld@viqua.com Position: M Status: A	Membership ID: 31462 Language: English Mail Stop:    E-Mail 2: Matrix: ZZ
<hr/>		
24	Name: Dr. T. D. (Troy) Vassos Title: Sr. Envmtl Engr - O&G Sector WTL Company: Golder Associates Ltd. Address: 4260 Still Creek Dr, Suite 500 Burnaby, BC V5C 6C6 Canada  Business : 604 296-4277 Cell Phone : 604 657-6559 Fax 1 : 604 298-5253 E-Mail: tvassos@golder.com Position: M Status: A	Membership ID: 27692 Language: English Mail Stop:    E-Mail 2: tvassos@hotmail.com Matrix: ZZ
<hr/>		
25	Name: Mr. P. (Paul) Gulletson Title: Project Manager Company: CSA Group Address: 5060 Spectrum Way, Suite 100 Mississauga, ON L4W 5N6 Canada  Business : 416 747-4186 Fax 1 : 416 747-2473 E-Mail: paul.gulletson@csagroup.org Position: A Status: E	Membership ID: 29304 Language: English Mail Stop:    E-Mail 2: Matrix: ZZ
<hr/>		
26	Name: Mr. S. E. (Shawn) Martin Title: Director, Industry Relations (PMG) Company: International Code Council Address: 115 Main Entrance Dr Pittsburgh, PA 15228 USA  Business : 1 888 422-7233 x7736	Membership ID: 25700 Language: English Mail Stop:

Cell Phone : 704 907-0436  
E-Mail: smartin@iccsafe.org  
Position: X Status: P  
Comments: Tel: 1 888.icc.safe (422.7233), ext. 7736

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E-Mail 2:  
Matrix: ZZ

27 Name: Mr. E. L. (Ed) Wirtschoreck  
Title: Manager of Standards  
Company: International Code Council (ICC)  
Address: 4051 West Flossmoor Rd  
Country Club Hills, IL 60478-5798 USA  
Business : 888 422-7233 4317  
E-Mail: ewirtschoreck@iccsafe.org  
Position: X Status: P

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Membership ID: 31930  
Language: English  
Mail Stop:  
E-Mail 2:  
Matrix: ZZ

**CSA/ICC B805** Joint Technical Committee on Rainwater Collection System  
Design and Installation (IS-RCSDI)  
**Minutes of Meeting No. 1**; held on April 9-10, 2014  
Issued: May 27, 2014  
CSA File: B227-23  
ICC File:



## **Appendix B**

### **Agenda for the Meeting**



# International Code Council and Canadian Standards Association



## JOINT CONSENSUS COMMITTEE ON RAINWATER COLLECTION SYSTEM DESIGN AND INSTALLATION (IS-RCSDI)

*BSR/CSA/ICC 805-201x, Standard for Rainwater  
Collection System Design and Installation*

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### TENTATIVE MEETING AGENDA – MEETING #1

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**Date**

April 9, 2014 - 8:00 AM to 5:00 PM CDT &  
April 10, 2014 – 8:00 AM to 2:00 PM CDT

**Teleconference**

800-910-8278 or 231-929-8278  
Conference Code 7896875

**Location**

Hyatt Regency O'Hare, 9300 Bryn Mawr  
Avenue, Rosemont, IL 60018 USA

**WebMeeting**

<http://iccsafe.adobeconnect.com/rcsdi/>

(Click the link & login as Guest)

**Secretariats**

[Shawn Martin](#), ICC  
[Paul Gulletson](#), CSA Group

**Project Website**

[www.iccsafe.org/is-rcsdi](http://www.iccsafe.org/is-rcsdi)

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**Agenda**

1. Call to Order (Martin, Gulletson)
  - a. Committee Member and Guest Self-Introductions
  - b. Approval of Agenda
2. Introductory Comments and Background (Martin, Gulletson)
  - a. ICC's ANSI PINS – review (Martin)
  - b. CSA Terms of Reference – review and approval (Gulletson)
  - c. Review Procedures for Joint ICC/CSA Standard Development
3. General Discussion
  - a. Standard Scope and Table of Contents
    - i. Overview of ICC Resource Document (Martin)
    - ii. Overview of Alberta Rainwater Harvesting Guidelines (Durnie)
  - b. Standard Use and Application
4. Selection of Committee Co-Chairs
  - a. Call for nominations and discussion
  - b. Vote for co-chairs
5. Task Groups
  - a. Review of Task Groups Roles and Approach
  - b. Establishment of Task Groups
  - c. Scope of work and leaders
6. Discussion of Date & Location of Next Meeting
7. Adjourn