Water 2015 Information Request
Enerplus Corporation

Module: Introduction

Page: W0. Introduction

W0.1
Introduction

Please give a general description and introduction to your organization.

Enerplus Corporation (Enerplus) has a diversified portfolio of oil and gas properties throughout Western Canada and the United States and produced an average of approximately 100,000 BOE/day, with 58% of the total production originating from natural gas, and 42% from crude oil and natural gas liquids throughout 2014.

Enerplus' enterprise value is currently estimated at CDN$2,300,940,280. The head office is located in Calgary, Alberta, and the United States office is located in Denver, Colorado. Enerplus has twelve field offices located throughout British Columbia, Alberta, Saskatchewan, Montana and North Dakota. As of December 31, 2014, Enerplus employed a total of 726 people, including full-time benefit and payroll consultants.

Enerplus continuously improves the efficiency of its energy consumption, strives to reduce our greenhouse gas emissions intensity and provides resources, training and technology to meet our environmental objectives. We have several ongoing environmental initiatives in this regard, including:

• greenhouse gas reduction (GHG) initiatives through an Energy Performance Working Group site environmental inspection and audit program;
• facility energy efficiency audits;
• water management planning;
• waste management and waste reduction programs;
• fugitive emissions management program; and
• reclamation of disturbed landscapes to equivalent land capability.

Enerplus reports its key environmental and safety metrics as required as part of the Canadian Association of Petroleum Producers (CAPP) Responsible Canadian Energy (RCE) Program. Enerplus' support and participation in this program demonstrates its commitment to responsible resource development and to continuous improvement in environment, health and safety and social performance.

Enerplus also reports all of its air emissions, water use volumes and waste handling and disposal metrics as required by the regulatory agencies in the jurisdictions that it operates. Quantitative data on GHG emissions and trends are disclosed annually through the CDP. Specific GHG regulations have been enacted on provincial, state and federal levels to facilitate reporting to the various voluntary and regulatory bodies and also provide publicly available data on our impacts.

W0.2
Reporting year

Please state the start and end date of the year for which you are reporting data.

Period for which data is reported
Wed 01 Jan 2014 - Wed 31 Dec 2014

W0.3
Reporting boundary

Please indicate the category that describes the reporting boundary for companies, entities, or groups for which water-related impacts are reported.

Companies, entities or groups over which operational control is exercised

W0.4
Exclusions

Are there any geographies, facilities or types of water inputs/outputs within this boundary which are not included in your disclosure?

No

Further Information

Module: Current State

Page: W1. Context

W1.1
Please rate the importance (current and future) of water quality and water quantity to the success of your organization

Water quality and quantity	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital for operations	Important	Enerplus' utilizes water for drilling, completions, operations and maintenance. In most instances non-fresh water can be used in place of fresh water, however non-fresh water must be chemically compatible with the formation and available.
Sufficient amounts of recycled, brackish and/or produced water available for use	Vital for operations	Important	The use of non-fresh water may add additional costs associated with the treatment of water prior to use to ensure compatibility. The cost of transportation associated with moving recycled water from point of origin to point of use may make the use of non-fresh water cost prohibitive.

W1.2
For your total operations, please detail which of the following water aspects are regularly measured and monitored and provide an explanation as to why or why not

Water aspect	% of sites/facilities/operations	Please explain
Water withdrawals-total volumes	76-100	In most jurisdictions it is a regulatory requirement to measure and report volumes of water withdrawn. All volumes of water withdrawn are measured and recorded for performance metrics and to meet reporting requirements.
Water withdrawals-volume by sources	76-100	These volumes are measured and monitored to meet regulatory requirements, performance metrics and to meet reporting requirements.

Water aspect	% of sites/facilities/operations	Please explain
Water discharges-total volumes	Less than 1%	No water discharge of industrial use water is permitted by regulations; no water is discharged.
Water discharges-volume by destination	Less than 1%	No water discharge of industrial use water is permitted by regulations; no water is discharged.
Water discharges-volume by treatment method	Less than 1%	No water discharge of industrial use water is permitted by regulations; no water is discharged.
Water discharge quality data- quality by standard effluent parameters	Less than 1%	No water discharge of industrial use water is permitted by regulations; no water is discharged.
Water consumption-total volume	76-100	Water consumption is measured at all facilities.
Facilities providing fully-functioning WASH services for all workers	Less than 1%	No facilities provide wash services for workers.

W1.2a

Water withdrawals: for the reporting year, please provide total water withdrawal data by source, across your operations

Source	Quantity (megaliters/year)	How does total water withdrawals for this source compare to the last reporting year?	Comment
Fresh surface water	1048.8	Much lower	Shallow non-saline groundwater included in this field.
Brackish surface water/seawater	0	About the same	This type of water not used in our operations.
Rainwater	0	About the same	This type of water not used in our operations.
Groundwater - renewable	0	About the same	This type of water not used in our operations.
Groundwater - non-renewable	0	About the same	This type of water not used in our operations.
Produced/process water	19444.2	Higher	Produced water volume increased by 4% from 2013 to 2014.
Municipal supply	426.8	Higher	Municipal volume increased by 20% from 2013 to 2014.
Wastewater from another organization	0	About the same	This type of water not used in our operations.
Total	20919.7	Lower	Total water volume decreased by 1% from 2013 to 2014.

W1.2b

Water discharges: for the reporting year, please provide total water discharge data by destination, across your operations

Destination	Quantity (megaliters/year)	How does total water discharged to this destination compare to the last reporting year?	Comment
Fresh surface water	0	About the same	No fresh surface water discharge of industrial use water is permitted by regulations.
Brackish surface water/seawater	0	About the same	No brackish surface water/seawater discharge of industrial use water is permitted by regulations.
Groundwater	20919.7	Lower	All water withdrawn is injected into reservoir to maintain voidage replacement ratio (VRR); water that is not required to maintain VRR is re-injected into suitable receiving formation
Municipal treatment plant	0	About the same	No municipal treatment plant discharge of industrial use water is permitted by regulations.
Total	20919.7	Lower	Total water discharged decreased by 1% from 2013 to 2014.

W1.2c

Water consumption: for the reporting year, please provide total water consumption data, across your operations

Consumption (megaliters/year)	How does this consumption figure compare to the last reporting year?	Comment
1048.8	Much lower	Surface water withdrawn is ultimately injected into deeper formations as primary or secondary function of oil and gas extraction. The process of transferring water from surface water to deep groundwater is considered consumptive. Total volume of surface water withdrawn is equal to total volume of water consumed. Total water consumed decreased by 140% from 2013 to 2014.

W1.3

Do you request your suppliers to report on their water use, risks and/or management?

No

W1.3b

Please choose the option that best explains why you do not request your suppliers to report on their water use, risks and/or management

Primary reason	Please explain

Primary reason	Please explain
Important but not an immediate business priority	Water data is not currently requested from suppliers. This will be reviewed for the 2015 reporting year.

W1.4

Has your organization experienced any detrimental impacts related to water in the reporting period?

No

Further Information

Module: Risk Assessment

Page: W2. Procedures and Requirements

W2.1

Does your organization undertake a water-related risk assessment?

Water risks are assessed

W2.2

Please select the options that best describe your procedures with regard to assessing water risks

Risk assessment procedure	Coverage	Scale	Please explain
Water risk assessment undertaken independently of other risk assessments	Direct operations	All facilities	For Canadian operations a Water Security Management Plan that included assessing water related risk for all operational areas. For US operations site specific Water Management Plans are completed prior to all developments.

W2.3

Please state how frequently you undertake water risk assessments, what geographical scale and how far into the future you consider risks for each assessment

Frequency	Geographic scale	How far into the future are risks considered?	Comment
Sporadically not defined	Business unit	>6 years	For Canadian operations a Water Security Management Plan that included assessing water related risk for all operational areas was completed in 2014. Tentative schedule to review and recomplete the plan is 2016. For US operations site specific Water Management Plans are completed prior to all developments.

W2.4

Have you evaluated how water risks could affect the success (viability, constraints) of your organization's growth strategy?

Yes, evaluated over the next 1 year

W2.4a

Please explain how your organization evaluated the effects of water risks on the success (viability, constraints) of your organization's growth strategy?

Access to adequate water supply is important to all operational stages including exploration, development and operations. At the initial planning stages of new projects Enerplus evaluates potential water sources to ensure sufficient, economically feasible water supply is available.

W2.5

Please state the methods used to assess water risks

Method	Please explain how these methods are used in your risk assessment
Internal company knowledge	Internal company knowledge is leveraged with professional water resources consultants input to arrive at risk assessment findings.

W2.6

Which of the following contextual issues are always factored into your organization's water risk assessments?

Issues	Choose option	Please explain
Current water availability and quality parameters at a local level	Relevant, included	Water availability and quality is assessed for each project.
Current water regulatory frameworks and tariffs at a local level	Relevant, included	To ensure compliance with regulations.
Current stakeholder conflicts concerning water resources at a local level	Relevant, included for some facilities/suppliers	Through the regulatory process, stakeholder concerns are addressed.
Current implications of water on your key commodities/raw materials	Relevant, included	Adequate supply of water is a necessity for production.
Current status of ecosystems and habitats at a local level	Not relevant, explanation provided	In all jurisdictions regulatory bodies are required to ensure ecosystems and habitats are not adversely impacted by operations
Current river basin management plans	Relevant, included	Where operations exist within an basin management plan area, all management plans are reviewed for alignment with those plans.
Current access to fully-functioning WASH services for all employees	Not relevant, explanation provided	Enerplus only operates in developed jurisdictions where WASH is not an issue.
Estimates of future changes in water availability at a local level	Relevant, included	Continued access to water supply is a necessity for production.
Estimates of future potential regulatory changes at a local level	Relevant, included	All upcoming and published regulatory changes are reviewed to determine potential impacts on operations.
Estimates of future potential stakeholder conflicts at a local level	Relevant, included	Potential for stakeholder conflict is included with all risk assessments.
Estimates of future implications of water on your key commodities/raw materials	Relevant, included	Continued adequate supply of water is a necessity for production.
Estimates of future potential changes in the status of ecosystems and habitats at a local level	Not relevant, explanation provided	In all jurisdictions, regulatory bodies are required to ensure ecosystems and habitats are not adversely impacted by operations
Scenario analysis of availability of sufficient quantity and quality of	Relevant, not yet included	Continued access to water supply is a necessity for production.

Issues	Choose option	Please explain
water relevant for your operations at a local level		
Scenario analysis of regulatory and/or tariff changes at a local level	Relevant, not yet included	All upcoming and published regulatory changes are reviewed to determine potential impacts on operations.
Scenario analysis of stakeholder conflicts concerning water resources at a local level	Relevant, not yet included	Potential for stakeholder conflict included with all risk assessments.
Scenario analysis of implications of water on your key commodities/raw materials	Relevant, included	Continued access to water supply is a necessity for production.
Scenario analysis of potential changes in the status of ecosystems and habitats at a local level	Not relevant, explanation provided	In all jurisdictions, regulatory bodies are required to ensure ecosystems and habitats are not adversely impacted by operations
Other	Not evaluated	NA

W2.7

Which of the following stakeholders are always factored into your organization's water risk assessments?

Stakeholder	Choose option	Please explain
Customers	Not evaluated	Currently, customers of the oil and gas industry have not been a risk factor with respect to water.
Employees	Relevant, not yet included	Employees want to work for a company that values and respects water resources. Inclusion of these stakeholders will be considered for the 2015 reporting period.
Investors	Relevant, not yet included	Investors want to invest in companies that act responsibly in all areas of its operations. Inclusion of these stakeholders will be considered for the 2015 reporting period.
Local communities	Relevant, included	The Water (Security) Management Plan assesses new and existing developments including local communities.
NGOs	Relevant, not yet included	NGOs may be relevant to a company's water risk assessment. Inclusion of these stakeholders will be considered for the 2015 reporting period.
Other water users at a local level	Relevant, included	The Water (Security) Management Plan assesses new and existing developments including other water users.
Regulators	Relevant, included	The Water (Security) Management Plan assesses new and existing developments including local regulators
River basin management authorities	Relevant, included	The Water (Security) Management Plan assesses new and existing developments including river basin management authorities.
Statutory special interest groups at a local level	Relevant, not yet included	Inclusion of these stakeholders will be considered for the 2015 reporting period.
Suppliers	Relevant, not yet included	Inclusion of these stakeholders will be considered for the 2015 reporting period.
Water utilities/suppliers at a local level	Relevant, included	The Water (Security) Management Plan assesses new and existing developments including local water utilities/suppliers.
Other	Not evaluated	NA

Further Information

Module: Implications

Page: W3. Water Risks

W3.1

Is your organization exposed to water risks, either current and/or future, that could generate a substantive change in your business, operations, revenue or expenditure?

No

W3.2

Please provide details as to how your organization defines substantive change in your business, operations, revenue or expenditure from water risk

Enerplus defines substantive change as any change that would affect the economic viability of an operational area or facility, triggering a new evaluation of whether the facility is a net asset or liability. For instance, if the cash flows no longer exceed the anticipated abandonment or the cumulative positives are less than the book value (up front capital), there may be a write down or a test that determines if there needs to be a write down.

W3.2e

Please choose the option that best explains why you do not consider your organization to be exposed to water risks in your direct operations that could generate a substantive change in your business, operations, revenue or expenditure

Primary reason	Please explain
Risks exist, but no substantive impact anticipated	A comprehensive evaluation of risks and opportunities for all Canadian operations was completed in 2014. Project specific Water Management Plans are completed for all developments in the US. No risks of substantive impacts were identified during these assessments.

W3.2f

Please choose the option that best explains why you do not consider your organization to be exposed to water risks in your supply chain that could generate a substantive change in your business, operations, revenue or expenditure

Primary reason	Please explain
Not yet evaluated	A comprehensive evaluation of risks and opportunities for all Canadian operations was completed in 2014. The next step in the risk assessment will be to examine water related risks to the supply chain.

Further Information

Page: W4. Water Opportunities

W4.1

Does water present strategic, operational or market opportunities that substantively benefit/have the potential to benefit your organization?

No

W4.1b

Please choose the option that best explains why water does not present your organization with any opportunities that have the potential to provide substantive benefit

Primary reason	Please explain
Opportunities exist, but nothing substantive	Access to fresh and/or saline water is essential to our business' commercial viability. Other than being able to continue to operate, there is no substantive benefit.

Further Information

Module: Accounting

Page: W5. Facility Level Water Accounting (I)

Further Information

Page: W5. Facility Level Water Accounting (II)

Further Information

Module: Response

Page: W6. Governance and Strategy

W6.1

Who has the highest level of direct responsibility for water within your organization and how frequently are they briefed?

Highest level of direct responsibility for water issues	Frequency of briefings on water issues	Comment
Senior Manager/Officer	Sporadic-as important matters arise	Water risk assessments are conducted on an operational area level. All operational areas and facilities roll up to an Asset area. The Asset Managers have best perspective on operational risks and opportunities within their areas, including water related aspects. Based on this hierarchical breakdown and their detailed knowledge of assets in their areas, the Asset Managers are briefed on water matters as they arise.

W6.2

Is water management integrated into your business strategy?

Yes

W6.2a

Please choose the option(s) below that best explain how water has positively influenced your business strategy

Influence of water on business strategy	Please explain
Water resource considerations are factored into new market exploration	Access to adequate water supply is important to all operational stages including exploration, development and operations. At the initial planning stages of new projects Enerplus evaluates potential water sources to ensure sufficient, economically feasible water supply is available.

W6.2b

Please choose the option(s) below that best explains how water has negatively influenced your business strategy

Influence of water on business strategy	Please explain
No measurable influence	Enerplus has no operations in areas where water is not available in quality and quantity required for operations.

W6.3

Does your organization have a water policy that sets out clear goals and guidelines for action?

Yes

W6.3a

Please select the content that best describes your water policy (tick all that apply)

Content	Please explain why this content is included
Publicly available Company-wide Incorporated within group environmental, sustainabiilty or EHS policy	The Enerplus external website and internal intranet sites include company-wide Safety and Social Responsibility Policy.

W6.4

How does your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) during the most recent reporting period compare to the previous reporting period?

Water CAPEX (+/- % change)	Water OPEX (+/- % change)	Motivation for these changes
0	0	Data not available; water spending is not tracked.

Further Information

Page: W7. Compliance

W7.1

Was your organization subject to any penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations in the reporting year?

Yes, not significant

W7.1a

Please describe the penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations and your plans for resolving them

Facility name	Incident	Incident description	Frequency of occurrence in reporting year	Financial impact	Currency	Incident resolution
Tommy Lakes, BC	Fine	Breach a term or condition of an approval (BC Section 8 Approval). Water withdrawals exceeded approved volumes.	1	2070	CAD ($)	Incident was determined to be administrative in nature. Procedures were reviewed and additional administrative controls were put in place to prevent future occurrences.

W7.1b

What proportion of your total facilities/operations are associated with the incidents listed in W7.1a

2.4%

W7.1c

Please indicate the total financial impacts of all incidents reported in W7.1a as a proportion of total operating expenditure (OPEX) for the reporting year. Please also provide a comparison of this proportion compared to the previous reporting year

Impact as % of OPEX	Comparison to last year
1	Higher

Further Information

Page: W8. Targets and Initiatives

W8.1

Do you have any company wide targets (quantitative) or goals (qualitative) related to water?

Yes, goals only

W8.1b

Please describe any company wide qualitative goals (ongoing or reached completion during the reporting period) and your progress in achieving these

Goal	Motivation	Description of goal	Progress
Other: use alternatives to fresh surface water	Risk mitigation	Alternatives to fresh surface water are sourced provided the alternative sources are technically, logistically, and economically feasible.	6% of total water used in 2014 was fresh surface water. This is a decrease from 12% in 2013.

Further Information

Module: Linkages/Tradeoff

Page: W9. Managing trade-offs between water and other environmental issues

W9.1

Has your organization identified any linkages or trade-offs between water and other environmental issues in its value chain?

Yes

W9.1a

Please describe the linkages or trade-offs and the related management policy or action

Environmental issues	Linkage or trade-off	Policy or action
Enerplus understands that a healthy ecosystem depends on reliable quantity of good quality water within wetlands, lakes and rivers.	Linkage	Enerplus complies with all water withdrawal approvals and restrictions. In areas that are water short, it is expected that alternatives to fresh surface water are sourced provided the alternative sources are technically, logistically, and economically feasible.

Further Information

Module: Sign Off

Page: Sign Off

W10.1

Please provide the following information for the person that has signed off (approved) your CDP water response

Name	Job title	Corresponding job category
Kym Fawcett	Manager, Safety and Social Responsibility	Environment/Sustainability manager

W10.2

Addressing water risks effectively, in many instances, requires collective action. CDP would like to support you in finding potential partners that are also working to tackle water challenges in the river basins you report against. Please select if your organization would like CDP to transfer your publicly disclosed risk and impact drivers and response strategy data from questions W1.4a, W3.2b, W3.2c, W4.1a and W8.1b to the United Nations Global Compact Water Action Hub.

No

Further Information

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