SCS Global Services
2000 Powell Street, Suite 600
Emeryville, CA 94608
www.scsglobalservices.com

Client Name:	Google Dublin Ireland Campus
AWS Registration Number:	AWS-000192
Client Representative:	Eddie Corwin, Google REWS
Auditor Team:	Rae Mindock (Lead) Henning Bloech Steve Brown (Local Auditor) Isabella Polenghi-Gross (Desk Review)
Audit Dates:	February 25-26, 2020
Stakeholder Notification:	AWS, SCS, LimnoTech Websites, 1/13/2020
Site Location:	4 Barrow Street, Dublin, D04 E5W5, Ireland
Report Date:	3/14/2020
Standard:	AWS International Water Stewardship Standard Version 2.0, March 22, 2019

Audit Type	☐ Gap Analysis ☐ Pre-assessment	☒ Initial Certification	☐ Surveillance ☐ Recertification

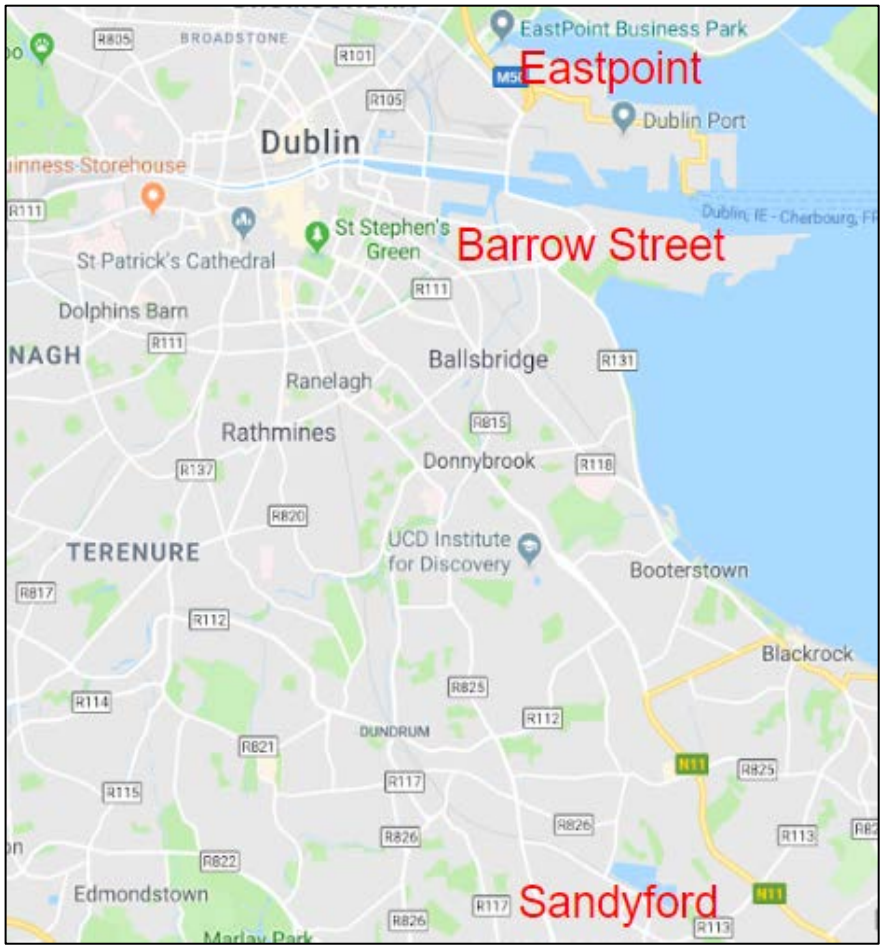
Site Information

Site Description

The Google Ireland Dublin Campus (Dublin) includes the following sub-campuses:

- Barrow Street (Barrow St, Dublin 4, Ireland)
- Eastpoint
- Sandyford

The campuses are comprised of both owned and leased buildings. There are multiple entities responsible for the properties, including Eastpoint Management (manages seven buildings), Aramark Property (manages two buildings), KSPN (manages one building), and JLL (manages two buildings). The campus uses municipal water, with some locations supplementing non-potable water with rain water harvesting. The City of Dublin utilizes a combined sewer system. Major water uses of the office campus include cafes and interior water fixtures.



Catchment Description

The Barrow Street Campus and the Sandyford Campus are located within the Dodder 09-16 Subcatchment. The Eastpoint Campus is further north, along the Tolka River, in the Tolka 09-4 Subcatchment. The three sites lie within the larger Liffey and Dublin Bay catchment. This catchment includes the area drained by the River Liffey and by streams entering tidal water between Sea Mount and Sorrento Point, Co. Dublin, draining a total area of 1,616km². The largest urban centre in the catchment is Dublin City. The total population of the catchment is approximately 1,255,000. The Liffey catchment contains the largest population of any catchment in Ireland and is characterized by a sparsely populated, upland south eastern area underlain by granites and a densely populated, flat, low lying limestone area over the remainder of the catchment basin. The site receives water from Irish Water with ultimate water source being Vartry Reservoir/River (through Stillorgan Reservoir) for all three campuses. Poulaphouca Reservoir (via Irish Water) is another possible source for the Eastpoint campus. Wastewater from the site is treated at the Ringsend Wastewater Treatment Works (operated and maintained by Celtic Anglian Water) and discharges to Lower Liffey Estuary (beside the ESB Poolbeg Power Station).

Location of the three Dublin sub-campuses within the Dodder and Tolka subcatchments.

Shared Water Challenges

Shared water challenges are catchment water related issues shared by the site and stakeholders. *Stakeholder engagement was documented in the Stakeholder Prioritization Table and Stakeholder Meeting Minutes. Auditor interviews confirmed the topics of engagement.* Primary water related risks to the site include infrastructure reliability, water availably, water quality and flooding. A prioritized list of shared water challenges addressing the outcomes was provided. Catchment issues shared by the site and stakeholder include:

- Aging and unreliable water infrastructure
- Drought/water stress
- Increased localized flooding risk
- Increased water demand)
- Sea level rise and coastal flooding
- Canal and estuary water quality
- Stormwater runoff water quality
- Municipal and industrial discharges

Site water Infrastructure to address shared challenges.

Potable water storage at the Docks Building.

Cold water storage at the Docks Building.

Audit Attendees

Participant/Title	Opening Meeting	Document Review	Site Inspection	Closing Meeting
Regional Technical Services Manager	x	x	x	
Head of Facilities, Dublin	x	x		
CMMS Planner	x	x	x	
Site Technical Services Coordinator	x	x	x	
Site Services Manager, Barrow St Campus		x	x	
Facilities Coordinator, Sandyford Campus			x	
Site Technical Services, Sandyford Campus			x	
Lead Facilities Coordinator, Eastpoint Campus			x	
Site Technical Services, Eastpoint Campus			x	
LimnoTech, Water Stewardship Support	x	x	x	x
Henning Bloech/SCS	x	x	x	x
Steve Brown/SCS	x	x	x	x
Rae Mindock/SCS	x	x	x	x

The Google Ireland Dublin Campus provided the following documentation to support conformity with the AWS Standard:

- Dublin_AWS Standard Conformity_V2 – providing evidence for the five Criteria and each Indicator. Maps, links and other documents are provided in the deck.
- Dublin_AWS-Deliverables-Template – providing evidence for stakeholder prioritization, shared water challenges, site risks, site opportunities and the water stewardship plan.
- Dublin_AWS Stakeholder Contact List – providing stakeholder organizations and contacts.
- AWS Implementation Case Study – providing evidence on the AWS process, journey and progress achieved during implementation of the Standard.

Summary of Findings

Step	Major	Minor	Observations	Total Points
1. Gather & Understand	0	0	0	NA
2. Commit & Plan	0	0	0	NA
3. Implement	0	0	0	NA
4. Evaluate	0	0	0	NA
5. Communicate & Disclose	0	0	0	NA
TOTAL	0	0	0	NA

Findings and Corrective Action

Citation	Finding	Description and Corrective Action
None		

Certification Decision

Auditor's recommendation for initial, continued or re-certification based on compliance with requirements:	X	Recommended
		Not Recommended
Level of Certification recommended	X	AWS Core
		AWS Gold
		AWS Platinum
SCS Certification Decision:	X	Approved
		Denied
Certification Decision by:		 Nicole Munoz, May 5, 2020 Vice President - ECS
Technical Review by:		 Nicole Munoz, May 5, 2020 Vice President - ECS
Date of Decision:		
Surveillance Schedule:		Next audit is scheduled for: March 2021 or Sept 2021 *(dependent on AWS approval of CAB recommendation*

AWS International Water Stewardship Standard, Version 2.0, March 22, 2019

Surveillance audits shall cover at a minimum those requirements highlighted in light green.

STEP 1: Gather and Understand

Level	Criteria	Indicator	Yes	No	NA	Objective Evidence/Finding	Points
Core	1.1 Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant	1.1.1 The physical scope of the site shall be ***mapped***, considering the regulatory landscape and zone of stakeholder interests, including: - Site boundaries; - Water-related infrastructure, including piping network, owned or managed by the site or its parent organization; - Any water sources providing water to the site that are owned or managed by the site or its parent organization; - Water service provider (if applicable) and its ultimate water source; - Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies; - Catchment(s) that the site affect(s) and is reliant upon for water.	Yes			The Dublin site, located in Dublin Ireland, is comprised of three campuses that are less than 6 miles from each other (Barrow Street, Eastpoint, and Sandyford). - Maps showing the boundaries of the areas around the buildings in all three campuses were provided. - A cooling tower and other water features (like swimming pool and rainwater harvesting system) are mapped within the site boundaries. - No water sources are owned or managed by Google. - Water service operators/providers are identified (Dublin City Council on behalf of Irish Water) and listed together with the main water bodies from which they abstract water: Vartry Reservoir/River (through Stillorgan Reservoir) and Poulaphouca Reservoir. - All water (foul/sanitary and stormwater) is combined and discharged to Ringsend Wastewater Treatment Works (WWTP, operated and maintained by Celtic Anglian Water), which discharges into Lower Liffey Estuary (beside the ESB Poolbeg Power Station) at a location included in the map provided. A map and a description of the Lower Liffey Estuary are also provided. - Maps and descriptions of the following catchments were provided: site catchment (including the Tolka 09-4 and Dodder 09-16 subcatchments, both located within the larger Liffey and Dublin Bay Catchment); source watershed: Poulaphouca Reservoir Watershed (within Liffey and Dublin Bay Catchment) and Vartry Reservoir Watershed (within Avoca-Vartry Catchment). **Observation 2020.01 was issued.** The water-related infrastructure managed by the site was identified and discussed during the site visit. Information on cooling tower maintenance should be available. **Observation 2020.01 was closed.** Information on cooling tower was provided for review.	
	1.2 Understand relevant stakeholders, their water related challenges, and the site's ability to	1.2.1 Stakeholders and their water-related challenges shall be ***identified***. The process used for stakeholder identification shall be ***identified***.	Yes			The Stakeholder Engagement Plan used during stakeholder mapping exercise was reviewed. Stakeholders identified include Irish Water, Waterways Ireland, Irish Environmental Network and Inland Waterways Association of Ireland. The stakeholders interviewed were aware of	

	influence beyond its boundaries.	This process shall: - Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people; - Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies; - Provide evidence of stakeholder consultation on water-related interests and challenges; - Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups; - Identify the degree of stakeholder engagement based on their level of interest and influence.				Google, including issues of surrounding the shared water challenges in the area.	
		1.2.2 Current and potential degree of influence between site and stakeholder shall be ***identified***, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.	Yes			Information on degree of influence provided in the Stakeholder Prioritization Table was reviewed. Stakeholders are related to the site's catchment and identifies the stakeholders' ability to influence or be influenced.	
	1.3 Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.	1.3.1 Existing water-related incident response plans shall be ***identified***.	Yes			The Water Outage/Reduced Water Supply and Flood Defense, Google Ireland Emergency Response Procedures 001 and 002 were reviewed. Incident response was addressed in the procedures. .	
		1.3.2 Site water balance, including inflows, losses, storage, and outflows shall be ***identified*** and ***mapped***.	Yes			Google prepared and provided a schematic representation of the water balance showing the main water components identified for year 2018.	
		1.3.3 Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be ***quantified***. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication	Yes			A water balance equation for the Dublin site was provided for year 2018. The water components provided include inputs from municipal supply potable, stormwater (calculated based on historical annual precipitation values, site area, and percent impervious surface), and outputs to waste water treatment system, cooling tower losses, and assumed consumption. Onsite water storage is quantified as a small percentage of the total water inflow. An indication of the annual variance in water usage rates was provided showing monthly water use data of selected buildings at Barrow Street and Eastpoint. A table with storage capacities	

		of annual high and low variances shall be ***quantified***.				and estimated autonomy (storage on-site if water is shut off) was provided.	
		1.3.4 Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be ***quantified***. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be ***quantified***.	Yes			Links were provided to the Irish Water 2018 drinking water quality summary for Water Supply Zones (WSZ) 6 (the zone for the Barrow Street and Eastpoint campuses), and 8 (the zone for the Sandyford campus), which show that almost all substances of concern meet their regulatory standards in the water they provide, except for a few parameters that are identified and addressed. The site reports that Irish Water has reported non-compliance with drinking water standards in Ireland and that when that happens, consumers boil water notices are published. The site monitors incoming potable/main water for all buildings on a quarterly basis. An indication of annual high and low variances is presented in plots with annual trends for some constituents that are a concern in Ireland. A link was provided to the 2018 Ringsend WWTP Water Quality Modelling report which provides a summary of the water quality status of the receiving water body.	
		1.3.5 Potential sources of pollution shall be ***identified*** and if applicable, ***mapped***, including chemicals used or stored on site.	Yes			A list of all onsite chemicals stored at the site was provided. Chemical storage was inspected during audit of the facility.	
		1.3.6 On-site Important Water-Related Areas shall be ***identified*** and ***mapped***, including a description of their status including Indigenous cultural values.	Yes			No on-site IWRAs were identified. IWRAs adjacent to the site include the Grand Canal, Tolka River, and Stillorgan Reservoir.	
		1.3.7 Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be ***identified*** and used to inform the evaluation of the plan in 4.1.2.	Yes			Costs were provided and shared value creation was described. The site does not have any water-related revenues. The shared value generated included: • Central dish washing by trained personnel/high efficiency equipment minimizes water and cleaning product use. Similar value is achieved through central waste sorting/disposal. • Use/purchase of renewable energy to support global operations provide water savings compared to traditional energy sources. • "Hermit crabbing" or the use of existing buildings reduces demo/construction conserving resources and water impacts.	
		1.3.8 Levels of access and adequacy of WASH at the site shall be ***identified.***	Yes			WASH is available on-site with potable water, showers and toilets for employees and visitors.	
	1.4 Gather data on the site's indirect water use, including: its primary inputs; the water use	1.4.1 The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be ***identified.***	Yes			No primary inputs with associated embedded water use were identified for this site. One relevant source of indirect water use was identified to be Google's Food Program. A summary of the Dublin Food Team's water saving initiatives was provided including sustainable practices related to indirect water use and direct water use in kitchens.	

	embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be ***identified***); and water used in out-sourced water-related services.	1.4.2 The embedded water use of outsourced services shall be *identified*, and where those services originate within the site's catchment, *quantified*.	Yes			The primary outsourced service with water use was identified to be the laundry for gym, pool, showers, and massage rooms. The location of the outsourced service was provided, and the water use quantified.	
	Advanced Indicator	1.4.3 **Advanced Indicator** The embedded water use of primary inputs in catchment(s) of origin shall be ***quantified***.				Advanced criterion was not considered for the Site.	
	1.5 Gather water-related data for the catchment, including: water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH	1.5.1 Water governance initiatives shall be ***identified***, including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.	Yes			A list of significant publicly led initiatives and water related public policy goals for the catchment was provided. A description of the purpose and relevance of the water-related legal and regulatory requirements was summarized.	
		1.5.2 Applicable water-related legal and regulatory requirements shall be ***identified***, including legally-defined and/or stakeholder-verified customary water rights.	Yes			A list of governmental, local permits and regulatory requirements was for Europe, Ireland and Dublin was provided and reviewed.	
		1.5.3 The catchment water-balance, and where applicable, scarcity, shall be ***quantified***, including indication of annual, and where appropriate, seasonal, variance.	Yes			A water balance with precipitation, runoff, and ET data was provided for the Tolka and Dodder watersheds (site catchments) and for the Poulaphouca Reservoir Catchment (ultimate source catchment) as a 10-year average spanning from 2002 to 2012. Annual variances were provided for precipitation (the primary driver). A summary of current and future water supply challenges was provided together with minimum and maximum water demand growth scenarios. Supplemental information with several links was provided to water level and flow data of catchment rivers; groundwater data; and several technical reports of site and ultimate source catchments.	
		1.5.4 Water quality, including physical, chemical, and biological status, of the catchment shall be ***identified***, and where possible, ***quantified***. Where there is a water-related challenge that would be a threat to good water quality status for people or	Yes			A summary of the water quality status, including ecological, chemical, and biological status, is provided for rivers, groundwater, and coastal water in both site catchments (status is defined as bad for River Tolka and good/moderate for River Dodder) as well as the ultimate water source catchments. The main issues are listed (as nutrients and sediment, diffuse urban sources of pollution, combined sewer overflows,	

		environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be ***identified***.				and illegal dumping), but not quantified. Anticipated future changes are discussed.	
		1.5.5 Important Water-Related Areas shall be identified, and where appropriate, ***mapped***, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.	Yes			IWRAs have been identified by Google and a description of their water related issues was provided. IWRAs include: <u>Liffey and Dublin Bay Catchment</u> • Dublin Bay, Lower Liffey and Estuary, Grand Canal, River Doddler, Lower River Tolka, Poulaphouca Reservoir, Stillorgan Reservoir <u>Avoca-Varty Catchment</u> • Varty Reservoirs (Upper and Lower) and River Vartry	
		1.5.6 Existing and planned water-related infrastructure shall be ***identified***, including condition and potential exposure to extreme events.	Yes			A list of publicly available reports/data of water-related infrastructure with a description, exposure scenarios and opportunities. Infrastructure has issues with breaks in mains, reduced capacity provides risks to users.	
		1.5.7 The adequacy of available WASH services within the catchment shall be ***identified***.	Yes			WASH for the catchment is adequate based on demographic information. Policies to address homelessness are being created by local agencies.	
	Advanced Indicator	**1.5.8 Advanced Indicator** Efforts by the site to support and undertake catchment level water-related data collection shall be identified.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**1.5.9 Advanced Indicator** The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified.				Advanced criterion was not considered for the Site.	
	1.6 Understand current and future shared water challenges in the catchment, by linking the water challenges ***identified*** by stakeholders with the site's water challenges.	1.6.1 Shared water challenges shall be *identified* and prioritized from the information gathered.	Yes			A prioritized list with rationale of shared water challenges was provided and reviewed. Drivers (risks) and public-sector agency efforts are noted.	
		1.6.2 Initiatives to address shared water challenges shall be ***identified***.	Yes			Initiatives to address shared water challenges including aging infrastructure, flood management, discharges and water quality were summarized.	
	Advanced Indicator	**1.6.3 Advanced Indicator** Future water issues shall be identified, including anticipated impacts and trends				Advanced criterion was not considered for the Site.	

	Advanced Indicator	**1.6.4 Advanced Indicator** Potential water-related social impacts from the site shall be identified, resulting in a social impact assessment with a particular focus on water.				Advanced criterion was not considered for the Site.	
	1.7 Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends ***identified*** in 1.6.	1.7.1 Water risks faced by the site shall be ***identified***, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.	Yes			A prioritized list of water risks was provided and reviewed. Water risks matched shared water challenges.	
		1.7.2 Water-related opportunities shall be ***identified***, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.	Yes			A prioritized list of water-related opportunities for the site identified during a workshop was provided which corresponded to the shared water challenges and water risks lists. A list of projects and value creation was reviewed.	
	1.8 Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.	1.8.1 Relevant catchment best practice for water governance shall be *identified*.	Yes			Google has identified multiple best practices toward achieving AWS outcomes at the site and in the catchment. The following best practices are examples for Indicators 1.8.1 - .1.8.5. A dedicated cross functional Team supporting site water stewardship at targeted Google campuses to ensure program continuation was created.	
		1.8.2 Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be ***identified***.	Yes			Established an efficiency metric (liters/Googler/day) to track onsite efficiency and established a targets to monitor continual improvement.	
		1.8.3 Relevant sector and/or catchment best practice for water quality shall be ***identified***, including rationale for data source.	Yes			Require suppliers to conform with the Google Supplier Code of Conduct which promotes reduction or elimination of wastewater and stormwater impacts.	
		1.8.4 Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be ***identified***.	Yes			There are no on-site IWRAs identified. Catchment best practice was described.	
		1.8.5 Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be ***identified***.	Yes			There is adequate WASH in the catchment. The Supplier Code of Conduct provides best practice from suppliers.	

STEP 2: Commit and Plan							
Level	**Criteria**	**Indicator**	**Yes**	**No**	**NA**	**Objective Evidence**	**Points**
	2.1 Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.	2.1.1 A signed and publicly disclosed site statement OR organizational document shall be ***identified***. The statement or document shall include the following commitments: - That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - That the site implementation will be aligned to and in support of existing catchment sustainability plans - That the site's stakeholders will be engaged in an open and transparent way - That the site will allocate resources to implement the Standard.	Yes			A commitment letter was reviewed, signed by the Facilities Manager, containing the elements described in this criterion.	
	Advanced Indicator	**2.1.2 Advanced Indicator** A statement that explicitly covers all requirements set out in Indicator 2.1.1 and is signed by the organization's senior-most executive or governance body and publicly disclosed shall be identified.				Advanced criterion was not considered for the Site.	
	2.2 Develop and document a process to achieve and maintain legal and regulatory compliance.	2.2.1 The system to maintain compliance obligations for water and wastewater management shall be ***identified***, including: - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies.	Yes			There are no water permits issued for the site. The Facility Manager is responsible for Legionella control.	
	2.3 Create a water stewardship strategy and	2.3.1 A water stewardship strategy shall be identified that defines the	Yes			A Water Stewardship Strategy document for the Dublin site was provided and reviewed. Google Dublin strategy contains a vision and	

	plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.	overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.				mission around water stewardship, with high-level overarching goals, which address the identified risks and opportunities and set goals that are in line with this AWS Standard.	
		2.3.2 A water stewardship plan shall be *identified*, including for each target: - How it will be measured and monitored - Actions to achieve and maintain (or exceed) it - Planned timeframes to achieve it - Financial budgets allocated for actions - Positions of persons responsible for actions and achieving targets - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.	Yes			A detailed water stewardship plan was created as part of the AWS process. The plan is broken into objectives, targets, and actions. There are different actions corresponding to different targets, each with their own metrics, budget, responsible person, status, and other criteria.	
	Advanced Indicator	**2.3.3 Advanced Indicator** The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same organizational ownership) shall be *identified* and described.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**2.3.4 Advanced Indicator** The site's partnership/water stewardship activities with other sites in another catchment(s) (either under same corporate structure or with another corporate site) shall be ***identified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**2.3.5 Advanced Indicator** Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which stakeholders are involved shall be ***identified***.				Advanced criterion was not considered for the Site.	

	2.4 Demonstrate the site's responsiveness and resilience to respond to water risks	2.4.1 A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be ***identified***.	Yes			Google Dublin developed water risk response plans and activities related to water scarcity and flooding risks and provided links to existing incident response plans to be responsive and resilient to water-related issues and risks. The two existing incident response plans identified included the Water Outage/Reduced Water Supply and Flood Defense, Google Ireland Emergency Response, Procedures 001 and 002.	
	Advanced Indicator	**2.4.2 Advanced Indicator** A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-sector and infrastructure agencies shall be ***identified***.				Advanced criterion was not considered for the Site.	
STEP 3: Implement							
Level	**Criteria**	**Indicator**	**Yes**	**No**	**NA**	**Objective Evidence**	**Points**
	3.1 Implement plan to participate positively in catchment governance.	3.1.1 Evidence that the site has supported good catchment governance shall be ***identified***.	Yes			Google Dublin provided documentation of their efforts to support good catchment governance through engagement with Irish Water, Waterways Ireland and local catchment authorities.	
		3.1.2 Measures ***identified*** to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be ***implemented***.	Yes			Google Dublin water use is within the water rights identified by the City of Dublin. Water rights of others is not identified for the site.	
	Advanced Indicator	**3.1.3 Advanced Indicator** Evidence of improvements in water governance capacity from a site-selected baseline date shall be *identified*.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.1.4 Advanced Indicator** Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water governance of the catchment shall be *identified*.				Advanced criterion was not considered for the Site.	
	3.2 Implement system to comply with water-related legal and regulatory requirements and respect water rights.	3.2.1 A process to verify full legal and regulatory compliance shall be ***implemented***.	Yes			There are no regularity requirements identified for office building operations.	
		3.2.2 Where water rights are part of legal and regulatory requirements, measures ***identified*** to respect the water rights of others including	Yes			Water rights are not part of the site's legal or regulatory requirements.	

		Indigenous peoples, shall be ***implemented***.					
	3.3 Implement plan to achieve site water balance targets.	3.3.1 Status of progress towards meeting water balance targets set in the water stewardship plan shall be ***identified***.	Yes			The site has implemented several projects to improve its water efficiency including installation of low flow fixtures, identify and reduce leaks with support of building management and cleaning staff, expanding single use beverage reduction program and investigate on-site non-potable water reuse.	
		3.3.2 Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be ***implemented***.	Yes			The Site is not within a water scarce catchment.	
		3.3.3 Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be ***identified***.	Yes			There is no re-allocation of water use required in the catchment.	
	Advanced Indicator	**3.3.4 Advanced Indicator** The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be ***quantified***.				Advanced criterion was not considered for the Site.	
	3.4 Implement plan to achieve site water quality targets.	3.4.1 Status of progress towards meeting water quality targets set in the water stewardship plan shall be ***identified***.	Yes			The site has implemented several projects to improve its water quality including stormwater attenuation, rainwater harvesting, on-site non-potable reuse, and championing a local water related project.	
		3.4.2 Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, ***quantified***.	Yes			There is no site effluent. Google is working on catchment stormwater and site runoff initiatives.	
	3.5 Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.	3.5.1 Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be ***implemented***.	Yes			No IWRAs are present at the Google Dublin site. The site has developed targets to IWRAs adjacent to the site.	
	Advanced Indicator	**3.5.2 Advanced Indicator** Evidence of completed restoration of non-functioning or severely degraded Important Water-Related Areas				Advanced criterion was not considered for the Site.	

		including where appropriate cultural values from a site-selected baseline date shall be ***identified***. Restored areas may be outside of the site, but within the catchment.					
	Advanced Indicator	**3.5.3 Advanced Indicator** Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the healthy status of Important Water-Related Areas in the catchment shall be ***identified***.				Advanced criterion was not considered for the Site.	
	3.6 Implement plan to provide access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers at all premises under the site's control.	3.6.1 Evidence of the site's provision of adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite shall be ***identified*** and where applicable, ***quantified***.	Yes			WASH is available on-site and within the catchment.	
		3.6.2 Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for Indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.	Yes			Evidence for on-site WASH containing indicator requirements was described. Google Dublin is not impacting on WASH of communities.	
	Advanced Indicator	**3.6.3 Advanced Indicator** A list of actions taken to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness shall be ***identified***.				Advanced criterion was not considered for the Site.	
		3.6.4 Advanced Indicator In catchments where WASH has been ***identified*** as a shared water challenge, evidence of efforts taken with relevant public-sector agencies to share information and to advocate for change to address access to safe drinking water and sanitation shall be ***identified***.				Advanced criterion was not considered for the Site.	

	3.7 Implement plan to maintain or improve indirect water use within the catchment.	3.7.1 Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be ***quantified***.	Yes			Indirect water use is not targeted in the Water Stewardship Plan due to insignificant inputs.	
		3.7.2 Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be ***identified.***	Yes			No primary inputs associated with embedded water use were identified. Outsources services includes laundry, gym and massage services and is considered minor.	
	Advanced Indicator	**3.7.3 Advanced Indicator** Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.				Advanced criterion was not considered for the Site.	
	3.8 Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.	3.8.1 Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be ***identified.***	Yes			Evidence of stakeholder engagement associated with water-related infrastructure is documented in Summaries of Stakeholder Meetings.	
	3.9 Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.	3.9.1 Actions towards achieving best practice, related to water governance, as applicable, shall be ***implemented***.	Yes			Google has implemented multiple best practices toward achieving AWS outcomes at the site and in the catchment. The following best practices are examples for Indicators 3.9.1 – 3.9.5 Dedicated cross functional team expanded water stewardship education of Googlers on water system and Google's on-going efforts.	
		3.9.2 Actions towards achieving best practice, related to targets in terms of water balance shall be ***implemented***.	Yes			Initiated program to implement offsite projects in local or source watershed to balance Google's water use.	
		3.9.3 Actions towards achieving best practice, related to targets in terms of water quality shall be ***implemented***.	Yes			Stormwater is 100% managed onsite with ongoing maintenance, inspection and monitoring.	
		3.9.4 Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be ***implemented***.	Yes			There are no on-site IWRAs identified. Catchment best practice was described.	
		3.9.5 Actions towards achieving best practice related to targets in terms of WASH shall be ***implemented***.	Yes			There is adequate WASH in the catchment. The Supplier Code of Conduct provides best practice from suppliers.	

	Advanced Indicator	**3.9.6 Advanced Indicator** Achievement of identified best practice related to targets in terms of good water governance shall be ***quantified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.7 Advanced Indicator** Achievement of identified best practice related to targets in terms of sustainable water balance shall be ***quantified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.8 Advanced Indicator** Achievement of identified best practices related to targets in terms of water quality shall be ***quantified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.9 Advanced Indicator** Achievement of identified best practices related to targets in terms of the site's maintenance of Important Water-Related Areas have been ***implemented***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.10 Advanced Indicator** Achievement of identified best practice related to targets in terms of WASH shall be ***quantified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.11 Advanced Indicator** A list of efforts to spread best practices shall be ***identified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.12 Advanced Indicator** A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be ***identified***.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**3.9.13 Advanced Indicator** Evidence of the ***quantified*** improvement that has resulted from the collective action relative to a site-selected baseline date shall be ***identified*** and evidence from an appropriate range of stakeholders linked to the collective action				Advanced criterion was not considered for the Site.	

		(including both those implementing the action and those affected by the action) that the site is materially and positively contributing to the achievement of the collective action shall be ***identified***.					
STEP 4: Evaluate							
Level	**Criteria**	**Indicator**	**Yes**	**No**	**NA**	**Objective Evidence/Findings**	**Points**
	4.1 Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes.	4.1.1 Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be ***evaluated***	Yes			Google Dublin has evaluated performance of the Stewardship Plan which is aligned with realizing the AWS Outcomes. Targets established in the Plan are tracked based on multiple actions with measurable metrics, documentation of stakeholder engagement, and evaluation of changes in water risk for each target.	
		4.1.2 Value creation resulting from the water stewardship plan shall be ***evaluated.***	Yes			Refer to 4.1.1	
		4.1.3 The shared value benefits in the catchment shall be identified and where applicable, ***quantified.***	Yes			Refer to 4.1.1	
		4.1.4 Advanced Indicator A governance or executive-level review, including discussion of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents shall be ***identified***.				Advanced criterion was not considered for the Site.	
	4.2 Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.	4.2.1 A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be ***identified.***	Yes			There were no water related emergency events at the site.	
	4.3 Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the	4.3.1 Consultation efforts with stakeholders on the site's water stewardship performance shall be ***identified***.	Yes			Documentation on stakeholder engagement was provided.	

	effectiveness of the site's engagement process.						
	Advanced Indicator	**4.3.2 Advanced Indicator** The site's efforts to address shared water challenges shall be ***evaluated*** by stakeholders. This shall include stakeholder reviewing of the site's efforts across all five outcome areas, and their suggestions for continual improvement.				Advanced criterion was not considered for the Site.	
	4.4 Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.	4.4.1 The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be ***identified.***	Yes			This is the initial assessment; therefore, this indicator does not apply for this initial round of standard implementation.	
STEP 5: Communicate and Disclose							
Level	**Criteria**	**Indicator**	**Yes**	**No**	**NA**	**Objective Evidence/Findings**	**Points**
	5.1 Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.	5.1.1 The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be ***disclosed***.	Yes			The internal governance and the AWS Implementation Case Study was provided to the Dublin Campus and shared with Stakeholders.	
	5.2 Communicate the water stewardship plan with relevant stakeholders.	5.2.1 The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.	Yes			Progress was summarized in the AWS Implementation Case Study. Communication and outreach confirmed through stakeholder interviews.	
	5.3 Disclose annual site water stewardship summary, including the relevant information about the site's annual water stewardship performance and results against the site's targets.	5.3.1 A summary of the site's water stewardship performance, including quantified performance against targets, shall be ***disclosed*** annually at a minimum.	Yes			The AWS Implementation Case Study was provided to the Dublin Campus and shared with Stakeholders.	

	Advanced Indicator	**5.3.2 Advanced Indicator** The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report.				Advanced criterion was not considered for the Site.	
	Advanced Indicator	**5.3.3 Advanced Indicator** Benefits to the site and stakeholders from implementation of the AWS Standard shall be ***quantified*** in the organization's annual report.				Advanced criterion was not considered for the Site.	
	5.4 Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.	5.4.1 The site's shared water-related challenges and efforts made to address these challenges shall be ***disclosed***.	Yes			See 5.1.1	
		5.4.2 Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be ***identified.***	Yes			See 5.1.1	
	5.5 Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.	5.5.1 Any site water-related compliance violations and associated corrections shall be ***disclosed.***	Yes			There were no water-related compliance violations at the site.	
		5.5.2 Necessary corrective actions taken by the site to prevent future occurrences shall be ***disclosed*** if applicable.	Yes			See 5.5.1	
		5.5.3 Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and ***disclosed.***	Yes			See 5.5.1	