

Kawasaki Green Innovation Cluster Member Information		Management Number	Section Number	Company
Business Classification	Air Soil and Water Business			
Business Field	Design, Installation and Maintenance of water treatment, air conditioning and electric devices			
Company/Organization Information	Company Name	第一環境アクア株式会社		
	Company Name (EN)	Daiichikankyo-Aqua Corporation		
	President	Akemi Sakai		
	Address	8F NBF Akasaka Sannoh Square, 2-2-12 Akasaka, Minato-ku, Tokyo, Japan		
	Contact	TEL: +81-3-6277-7620 (Representative) FAX: +81-3-6277-7621		
	Capital	Jyen 40 million		
	No. of Employees	48 (April 2017)		
	E-mail			
	Website	<a href="http://www.daiichikankyo-aqua.com/">http://www.daiichikankyo-aqua.com/</a>		
	Branches/Agencies			
Business Activities, Messages and Others	Business Activities	<p>1.Designing, construction and maintenance of water treatment facility, water supply and sewerage facility, sludge and sewage treatment plants,</p> <p>2.Design, construction, production, sales and maintenance of septic tank,</p> <p>3.Design, construction and maintenance of air conditioning, supply and drainage sanitation, electricity, etc.</p> <p>4.Cleaning of water tank and piping facility</p> <p>5.Collection, transportation, processing and recycling of industrial waste</p> <p>6. Studies on environmental management; and Design, construction, production and sales of equipment for prevention of water pollution.</p> <p>7. Civil engineering / landscaping / external tank construction and design, construction and maintenance of watering facilities</p> <p>8. Comprehensive management of buildings, houses and industrial parks,</p> <p>9. Contracting, designing, construction, supervision of construction and civil engineering construction</p> <p>10. All incidental work related to the above.</p>		
	Activities Products	<p>● [Kitchen Wastewater Treatment facility]</p> <p>It is mandated to meet the quality standard to discharge wastewater to sewers from buildings, commercial facilities, complex malls, meal service centres, etc., in accordance with the Sewerage Service Act of Japan and the relevant municipal ordinance.</p> <p>Wastewater from kitchen often contains a lot of oils, fats and organic residues, which mostly requires "pressurized floating treatment method" to physically and chemically removes oil and fats, and "activated sludge treatment method " to remove and reduce organic matter "or equivalent processing method. These requirements entails customers additional financial cost for managing odour generated from removed oil and excess sludge; and disposal of sludge. DK AQUA Corporation has developed "BCS (Bio catalytic oxidation method)" which realizes efficient water treatment performance applying our proprietary oil-and-fat decomposing bio-bacteria eventually to reduce such financial cost.</p> <p>● [Medium water equipment]</p> <p>The owners of building and development planners with a designated size/scale are required to observe the conditions set forth in the relevant ordinance and the Guideline on Efficient Use of Water. Increasing number of buildings and projects adopts recycling of water to realize the society where water resource is recycled.</p> <p>DK AQUA Corporation proposes diverse and appropriate facilities according to the nature and scale of raw water to enhance recycling of water under the budget.</p> <p>● [Wastewater treatment facility of Food factory]</p> <p>Wastewater discharged to public waterbodies from factories such as food industries as designated in the relevant law are mandated to meet the national effluent standards. The standards set forth 1) hazardous parameters such as dioxins and 2) human life-environmental parameters such as COD, Total-N, Total P. Prefectural government are also authorized to enforce a set of more stringent standards.</p> <p>DK AQUA Corporation offers best wastewater treatment system considering locations, scale, products, and laws and regulations to meet the budget.</p> <p>In addition, DK AQUA Corporation provides service to assist the client in preparing and submitting application forms for wastewater management, designing and constructing, operating wastewater treatment facilities, monitoring and recording wastewater quality, attending on-site inspection and preparing other types of reports mandated under the laws.</p>		

Kawasaki Green Innovation Cluster Product Technology Information		Management Number	Section Number	Company																																								
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Company Name	Daiichikankyo-Aqua Corporation																																											
Products/Technologies	"BCS (Bio catalytic oxidation method)" It is a system to decompose oils and pollutants by "bio".																																											
Overview of Products/Technologies	Features	1.«Tank capacity» compact design (2/3rd or less), which makes the installation cost lower 2. The treatment process does not emit noticeable odour. Therefore, it does not require installation of large scale deodorizing equipment. 3. It does not adopt activated sludge, which would therefore not require any disposal of excess sludge. The cost can be minimized accordingly. 4. Operation and maintenance cost may be halved due to the simple treatment process. 5. It is also possible to install an additional facility to enable recycle of treated water after the BCS treatment process.																																										
Detailed Information about Products/Technologies	Details	We propose an appropriate set of system to minimize the installation and O/M cost by assessing the nature & concentration of wastewater, availability of pre-treatment equipment such as grease trap, etc. and dimensions of the facilities. <table border="1" style="margin-top: 10px;"> <thead> <tr> <th></th> <th>BCS</th> <th>Activated sludge</th> <th>pressurized floating treatment method</th> <th>Carrier fluidized bed</th> </tr> </thead> <tbody> <tr> <td>Initial cost</td> <td>◎</td> <td>△</td> <td>×</td> <td>○</td> </tr> <tr> <td>O/M cost</td> <td>◎</td> <td>△</td> <td>×</td> <td>△</td> </tr> <tr> <td>Reagents and carriers</td> <td>○</td> <td>○</td> <td>×</td> <td>○</td> </tr> <tr> <td>Sludge disposal</td> <td>◎</td> <td>×</td> <td>×</td> <td>△</td> </tr> <tr> <td>Load variation</td> <td>○</td> <td>△</td> <td>•</td> <td>×</td> </tr> <tr> <td>Treated water</td> <td>○</td> <td>◎</td> <td>◎</td> <td>○</td> </tr> <tr> <td>Odour</td> <td>◎</td> <td>×</td> <td>×</td> <td>×</td> </tr> </tbody> </table>				BCS	Activated sludge	pressurized floating treatment method	Carrier fluidized bed	Initial cost	◎	△	×	○	O/M cost	◎	△	×	△	Reagents and carriers	○	○	×	○	Sludge disposal	◎	×	×	△	Load variation	○	△	•	×	Treated water	○	◎	◎	○	Odour	◎	×	×	×
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Advantages	Patents, Awards (domestic and overseas)	BCS-MNB «Patented» Title: Water treatment apparatus Number: Patent No. 5167447 Registration date: January 1, 2013  Winning Excellence Award: BCS System "2nd Chiyoda Business Awards Environmental Contribution Department" Award date: March 2010 Awarding evaluation points ・ Compact equipment size ・ Labour-saving management work ・ There is no need to dispose of sludge ・ Contributing to CO <sub>2</sub> reduction																																										