



**ENVIROSPHERE**  
consulting

## CAPABILITIES STATEMENT



Planning, Delivering & Managing for a Sustainable Future - Now



# MISSION STATEMENT

We contribute to maintaining a healthier, more diverse and enjoyable planet to live on by providing high value, sustainable, environmental outcomes through scientific analysis, detailed planning, design and delivery of practical business solutions.



ENVIROSPHERE  
consulting



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# HISTORY

## ENVIROSPHERE CONSULTING



### We have been consulting since 2010.

Envirosphere Consulting has been delivering practical & sustainable solutions since 2010.



Envirosphere Consulting's evolution to a dedicated team of environmental consultants and a broad network of associates is proof of our capability to deliver the very best environmental, economic and social outcomes for a diverse range of projects of increasing complexity.

At Envirosphere we have helped our clients achieve their goals in intensive agriculture and processing industries, natural resource management, sustainable rural production, urban residential and rural development, infrastructure delivery, ecotourism, nature-based recreation and natural areas management.

**With a demonstrated ability to deliver, and a growing base of satisfied clients we are confident in our capabilities and have a positive outlook for our future in helping all organisations we work with to achieve better outcomes.**

## THE ENVIROSPHERE WAY



Serving your needs is our priority and we do this through a process of seeking to understand your unique situation first and then developing an appropriate and cost-effective way to overcome your challenges and achieve your goals.

### High Value

Our style of consulting focuses on ensuring you get the best outcome for your project while addressing key requirements of the regulator. We do this by providing hands-on involvement throughout the lifecycle of your project.

### Scientific Analysis

Envirosphere follows rigorous scientific methodologies to provide consistent and high-quality assessments, data analysis, reports, programs and solutions for our clients. While our consultants have a wide range of skills, knowledge and experience, Envirosphere's expansive network of specialist associates and academics assist with tasks such as experimental design, legislative advice and high end scientific analysis for more complex and sensitive projects.

### Practical and Sustainable

We believe the best outcomes are achieved through win-win situations, resulting in a balance between the needs of our client and the environment. Our focus is on achieving good economic, social and environmental outcomes for all clients we work with. This approach has benefited costs and outcomes across all our projects by smoothing the pathway to approval, increasing product value for developers, reducing future maintenance burdens for land managers, and increasing and maintaining production for agricultural producers. We take the time to listen to our clients and understand their situation. We value the knowledge that is inherent in our clients and we integrate their knowledge with our industry understanding and experience to benefit their project.

### Quality Control

Adhering to our Quality Control procedure produces consistent results and allows us to ensure a lower level of risk for each project we work on. Following our policy and procedure also ensures consistent results.

## SERVICES CHAIN OVERVIEW



Envirosphere's chain of services are covered under five broad categories which include: Foresight, Planning and Design, Management, Environmental Monitoring and Sustainability. We operate at all points along the services chain from Foresight – conceptual design and feasibility right through to the later stages of environmental monitoring and implementing sustainability management actions.

Envirosphere's services are diverse and cover most sectors of the environmental field. Our specialist services include: Terrestrial and Aquatic Ecology, Soil Science, Ecological Restoration Management Planning, Land Assessment and Management, Landscape Architecture, Arboriculture Consulting and Environmental Monitoring.



### Foresight

Envirosphere assists with foresight and vision to bring your project to life. This critical first step in project realisation looks at the environmental aspects and whether the project or land use is feasible, identifies strategic goals, looks at environmental risk and seeks out opportunities or environmental value-adds and ways to ensure sustainability.



### Planning and Design

Our planning and design services ensures that your project meets all necessary environmental compliance legislation and guidelines, that all competing and conflicting parameters are reviewed and addressed, logical steps are set out, synergies are identified and utilised and government regulator's reporting requirements are met.



## Management

Envirosphere manages environmental projects and complex environmental components of major projects. We can take the lead and implement, manage and quality control all aspects of a project or work with Project Directors and project teams to implement works.

Our network of associates allows us to project manage the implementation of on-ground works. We source and manage contractors where needed in ecological restoration, vegetation management, track/trail and boardwalk construction, landscape implementation, fauna and habitat management and enhancement and a range of other environmental projects.



## Environmental Monitoring

We will undertake monitoring to meet regulators guidelines or for scientific purposes to understand critical aspects of project implementation, success outcomes and identify areas for improvement.

At the forefront of technology, we utilise drones for physical inspections of natural assets and infrastructure, surveys for inaccessible or “difficult to access” sites and for monitoring of river catchments, broad-scale weed infestations, large revegetation and forestry plots and areas affected by bushfire. Coupled with GIS database technology, our use of drones has increased our environmental monitoring capacity.



## Sustainability

Our aim is to bring the principles of environmental sustainability to all the industries that we work with. Through foresight we can identify environmental value-adds or undertake works in a more sustainable way, without significant extra costs to our project partners.

Thoughtful planning ensures that projects and programs reflect all environmental, social and economic opportunities and constraints and that designs are integrated, meet high standards and are practical and implementable. Finally, through our monitoring services we confirm project successes and report our findings to the Government regulators and implement adaptive management principles where needed to achieve project improvements.

**We strongly believe in and use the principles of adaptive management to learn and to ensure continuous improvement in Environmental management.**



# CAPABILITIES STATEMENT 2017

## DEVELOPMENT INFRASTRUCTURE AND ECOTOURISM

### Development, Infrastructure & Ecotourism

We have many clients that we assist in the development, infrastructure and business areas, which include for example Developers, Town Planners, Project Managers, Construction Companies, Eco-tourism and Nature-based Recreation Operators.

There are numerous pieces of legislation, regulations, guidelines and responsibilities related to development and infrastructure provision in both the public and private sectors, which is why it is essential to engage the services of an experienced agency such as Envirosphere Consulting, to smooth the pathway and achieve the necessary approvals. Our team understands the industry requirements for applications, documentation and quality assurance, design, planning, reporting and delivery. Our goal is to work with our clients and provide key environmental aspects for the pre-design, location selection and options analysis phases of projects to ensure successful outcomes.

### Examples of services we can provide to businesses to assist them to deliver quality service to their clients:

- Environmental application drafting and submission
- Ecological analysis (including terrain analysis, bio-condition assessments, vegetation and fauna surveys)
- Impact assessments
- Liaison with regulatory agencies
- Environmental project contractor supervision and management, options evaluation, business case analysis, process review and decision support for environmental issues
- Stakeholder engagement and consultation
- Environmental monitoring
- Drone surveys, monitoring and aerial photography
- GIS data capture and presentation
- Landscape architecture design and drawings
- Vegetation clearing plans and spotter catcher services
- Arboricultural assessments
- Soils investigations and sediment and erosion control plans

### Client Type: Rural Development

**Services:** Ecological Planning, Design, Vegetation Monitoring & Project Management of Ongoing Ecological Restoration

This example rural development site encompasses a subdivision of 24 prestige acreage lots and approximately 85 hectares of associated environmental reserves. Envirosphere Consulting has provided environmental advice and ecological restoration guidance since 2010 and still works with and represents the client, with compliance aspects of the

# CAPABILITIES STATEMENT 2017

## DEVELOPMENT INFRASTRUCTURE AND ECOTOURISM

project and project management of environmental and landscape works in conjunction with RPS (Gold Coast).

Envirosphere Consulting's Principal Consultant has been a pivotal influence in this project as the lead consultant for the ecological restoration design, management planning and implementation of the project. Also contracted as an independent natural areas project manager, Envirosphere Consulting has overseen the implementation of earlier management planning and associated restoration works and parks infrastructure throughout the site.

### Client Type: Outdoor Recreation & Ecotourism

**Services:** Ecological Assessment, Environmental Planning and Reporting & Expert Witness for Planning and Environment Court Appeal

This integrated ecotourism development and outdoor recreational facility is located in the Gold Coast Hinterland. The development incorporates extensive outdoor recreation activities in a high value ecological area. It includes strategically placed zip lines, Tibetan suspension bridges, mountain biking trails, a picnic area, a camping site, a walking trail and related infrastructure. The development requires several facilities and constructions such as a visitor complex, café area, toilet/shower facility and a bike service/ hire shop which are located in a previously cleared area, which has been significantly modified.

Envirosphere Consulting has been working with the proponent over several years on major facets of the development to establish a detailed understanding of the environmental values of the property. We have undertaken the necessary studies, assessments and planning to support the development application for the project.

#### Over this period, Envirosphere Consulting has completed:

- Detailed Terrestrial Ecological Assessment of the site;
- Guided our client through the Federal EPBC Referral process and produced a comprehensive Conservation Management Plan;
- Ecological Restoration Management Plan;
- Bushfire Clearing and Tree Removal Management Plan;
- Pest Animal Monitoring and Management Plan;
- Impact Management Plan for dealing with protected flora matters listed under state legislation;
- Envirosphere Consulting has also provided expert witness testimony in the Planning and Environment Court, in relation to the development and worked with the client to achieve the final approvals.

# CAPABILITIES STATEMENT 2017

## DEVELOPMENT INFRASTRUCTURE AND ECOTOURISM

### Client Type: Nature-based Recreation Events Business

**Services:** Environmental Impact Assessment

Our client hosts an endurance trail run in the Gold Coast Hinterland each year. The 50km event is organised and run by a business specialising in events held in outdoor natural environments. Envirosphere Consulting was engaged by the client to undertake an Impact Assessment, including pre-and post-event monitoring.

Eight (8) pre-determined sites required monitoring, along with an additional trail survey along one of the circuit's that was approximately 4.9 km in length. The sites as identified by Queensland Parks and Wildlife Service (QPWS) were outlined in the Environmental Impact Assessment Design Brief for the event.

Site selection was based on potential for impacts to vegetation and fauna habitat, potential for erosion, human impact on trails and water quality monitoring. Site selection also depended to some degree on the nature of the event and areas of likely or known impact e.g. competitors traversing muddy surfaces and creek crossings. Envirosphere Consulting's monitoring satisfied the approval conditions for the event, and the subsequent report highlighted findings and opportunities for improvements to be made to future events.

### Client Type: Town Planner

**Services:** Sustainable Planning and Design

Envirosphere Consulting was invited by one of our town planning associates to provide sustainable planning and design advice for new housing options in Queensland to meet community, urban and environmental challenges – filling the gap between single lot dwellings and high-rise apartment blocks.

#### **We provided design advice via three streams:**

- Reporting and presentation by utilising programs such as Microsoft Publisher;
- 3D design utilising Google Sketchup; and
- Through verbal correspondence during team meetings with our project partners.

Having a keen interest in innovative technologies and designs we worked with our client to present practical solutions to contemporary issues facing Australians in the housing market. Innovations researched were home biogas, bio-shading, appropriate selection of plants, vertical garden designs, rooftop gardens, grey water, permeable driveways and recycled building materials sourced locally. These themes were then critiqued and modified or

# CAPABILITIES STATEMENT 2017

## DEVELOPMENT INFRASTRUCTURE AND ECOTOURISM

refined to provide the most practical outcome and applied to the building design. The result of this collaboration across the disciplines of town planning, architecture and environment was a well-designed product that will likely influence the evolution of housing from the poorly designed 'McMansion' to a form fitting, sustainable, affordable and livable home for future Australians.

### Client Type: Development and Infrastructure

**Services:** Environmental Impact Assessment

Envirosphere carried out an extensive assessment over a 2.3 kilometre alignment for a new rising sewerage main which would potentially impact on 'of concern' and 'endangered' vegetation. Our team assessed legislative requirements and undertook a detailed field survey which captured information on the various vegetation communities including the structure, diversity and health of each community. In addition, we located, identified and mapped significant trees, habitat and fauna species found onsite.

As part of the project, we provided our client with a range of recommendations for meeting legislative requirements and mitigation measures for minimising environmental impacts.

# CAPABILITIES STATEMENT 2017

## INTENSIVE INDUSTRIES

Our clients in this industry sector are businesses that generally operate under an Environment Authority including: Resource companies, Intensive Agriculture, Energy and Industrial companies. EnviroSphere has experience in working with our clients to obtain regulatory approvals, achieve compliance with regulatory requirements and move towards industry best practice. We can also work with intensive industries to undertake stakeholder engagement in the design and operational phases of projects.

### Examples of services we can provide to Intensive Industries include:

- Environmental application drafting and submission
- Environmental monitoring – water, soil, vegetation
- Management of EA requirements and liaison with regulatory agencies
- Auditing and reporting
- Ecological analysis (including terrain, bio-condition monitoring, flora and fauna)
- Impact assessments
- Ecological restoration design and management planning
- Soils investigations and sediment and erosion control plans
- Stakeholder engagement and consultation
- Drone aerial photography
- GIS data capture and presentation

### Client Type: Intensive Agriculture

#### **Services:** Monitoring and Reporting

We were engaged by a client that was in the process of moving from a traditional agricultural model to a more intensive mixed-use enterprise, to undertake an assessment of the water quality entering and leaving the project area. A number of rural production enterprises are located in the area upstream from the site including beef and poultry production properties, cropping, a small vineyard and an abattoir. The baseline water quality assessment was initiated to obtain pre-development water quality data that are specifically related to parameters associated with agricultural rural production and which would likely be of interest to various state government regulators. The recorded data can be used for future comparisons after rehabilitation works have been undertaken on the project site.

Thirteen (13) physio-chemical and biological parameters were tested to provide an indication of general waterway health. The parameters included those significant for detecting rural production impacts, namely, agricultural runoff, soil erosion and sedimentation.

EnviroSphere brought value to our client's operations through our environmental management expertise, identifying poor water quality and other impacts associated with the catchment. Prior to our assessment work and the final report, there was no baseline information available and no real understanding of the quality of water on the property.

# CAPABILITIES STATEMENT 2017

## INTENSIVE INDUSTRIES

### Client Type: Intensive Agriculture (Continued)

With a better understanding of the water quality of the site, our client is making changes to management strategies including creating a stock free environmental restoration zone of 100m on either bank of the creek (to be fully revegetated) for the full length of the creek from the western to the eastern boundary. This significant action is expected to dramatically improve water quality in this localised catchment. Other projects undertaken for this client included the following: Ecological Assessment and Report, Soils Survey and Report, Ecological restoration advice and consultation with SEQwater about the expansion of the Intensive Agricultural Enterprise.

### Client Type: Industrial Processor

**Services:** Consulting and Management Planning

Our client operates an industrial processing facility and undertakes a range of activities to reclaim valuable animal products from abattoir waste. The company also reuses high nutrient waste water (produced as a result of their operations) on the property to grow lush pasture, which is grazed by a resident herd of beef cattle. The Company sees itself as providing an important recycling function for what might otherwise be a waste product and is focused on continually improving the environmental outcomes from its activities.

Envirosphere is working closely with the Management Team to develop its understanding of the nutrient processing capabilities of the property's pasture areas and the characteristics of its soils, with a view to further improve irrigation practices and ensure there are no off-site impacts.

Our team analysed records of previous environmental monitoring, soil analyses and reports provided by the client and found clear gaps in knowledge regarding a full understanding of the soils within the irrigation area. By identifying these gaps, we were able to target our assessments and undertake further analysis that provided a better understanding of the site constraints. Through our understanding of the client's needs and a thorough understanding of the site constraints, we were able to provide clear recommendations for the long-term viability of this operation.

Envirosphere Consulting has also set up and facilitates a monthly Environmental Sustainability Panel in conjunction with our client, to identify other opportunities to improve the environmental, social and economic sustainability of the organisation's operations.

# CAPABILITIES STATEMENT 2017

## INTENSIVE INDUSTRIES

### Client Type: Quarry

**Services:** Vegetation Monitoring and Reporting

During 2015-2016 our client expanded its operations and as part of the process approvals were required from Gold Coast City Council. The original conditions associated with the approval of the upgrade project contained a number of conditions specifically related to the rehabilitation of areas within the quarry. In accordance with conditions of approval, a rehabilitation plan was produced by Cardno.

Envirosphere Consulting was engaged to monitor the rehabilitation areas against the required objectives including assessment of the density and species composition of plants within the rehabilitation areas as well as an overall assessment of the health of the revegetation and its growth trajectory with comparative remnant Regional Ecosystems.

#### Our Tasks Included:

- Assessment of four (4) x one hundred metre transects and four (4) x 50 m x 2 m plots;
- Identification and listing of canopy, sub canopy, shrub and ground cover species;
- Height and spread measurements for canopy species;
- Density measurements to ensure compliance with performance criteria;
- Identification and listing of weed species and measurement of their cover
- Data collation and analysis;
- Comparison with previous monitoring results; and
- Preparation of a monitoring report outlining findings and management recommendations.
- Ongoing work over several years of prescribed monitoring

# CAPABILITIES STATEMENT 2017

## GOVERNMENT AND NATURAL RESOURCE MANAGERS

This is an important industry sector for EnviroSphere which includes State and Local Government Agencies, Landcare, Water Resources, Parks and Wildlife Service, Private Conservation Land Managers, Catchment Groups and Indigenous Land Managers.

We have an excellent understanding of the specific needs of conservation land managers and the unique opportunities and challenges facing this sector. Our experienced team work side-by-side with our conservation land management clients to increase their environmental knowledge and improve management of their land.

### Examples of services we can provide to Government and Natural Resource Management clients include:

- Application drafting
- Property Management Planning (PMP's)
- Ecological analysis (including terrain analysis, vegetation and fauna surveys)
- Asset planning and current asset management plans for environmental and civil assets
- Development of Conservation Management Plans
- Pest Planning (weed and animal)
- Training in property management activities
- Project design, planning and management for land restoration activities
- Options evaluation for property management issues
- Preparing applications for grants funding
- Data capture and presentation (e.g. GIS\map production)
- Vegetation rehabilitation plans
- Stakeholder engagement and consultation
- Training program development and delivery
- Environmental monitoring
- Drone surveys, monitoring and aerial photography
- GIS data capture and presentation
- Landscape architecture and design
- Ecological analysis (including terrain analysis, vegetation and fauna surveys)
- Map-based plans for Natural Resource Management
- Threatened species impact management plans

# CAPABILITIES STATEMENT 2017

## GOVERNMENT AND NATURAL RESOURCE MANAGERS

### Client Type: Local Government - Natural Areas Management

**Services:** Consulting and Management Planning

Envirosphere was engaged by a City Council to prepare two map-based ecological restoration plans for two Council Conservation Areas. A detailed project understanding was achieved through an initial inception meeting with the client, where site specific information was exchanged, questions were asked, and expectations were firmly clarified.

An important element of this project was the review of available published literature focusing on strategies, methodologies and case studies for approaches to restoring and rehabilitating degraded land and site-specific data and reports such as Regional Ecosystem Mapping, the current site plan, weed lists, revegetation lists, etc.

Site assessments were undertaken at each park to assess the health of the vegetation including; condition, structure, resilience, level of weed infestation, native recruitment, etc. Important features were captured with a GPS and boundaries were defined to allow the site to be divided into management zones. Additional native plant species that had not previously been identified onsite were added to a confirmed species list. All other potential management issues were also noted.

An initial field survey map was created for each of the two parks to use during the site assessment. It was based on Council's existing restoration zone mapping for both Parks. This map was then marked up accordingly (in the field), to assist with the design of the new map. Field data, GPS points and newly designed polygons (as marked up on the field map) were integrated with existing Council GIS data to create the draft map, which divided the area into new management zones. This was undertaken to prioritise treatment areas from high priority areas to lower priority areas; or to divide the site into manageable zones that required different treatments such as revegetation versus assisted regeneration or natural regeneration. The draft maps were presented to Council for review and feedback and suggested changes were incorporated to complete the final maps.

### Client Type: Local Government – Environment & Sustainability

**Services:** Design, Consulting, Management Planning and Community Engagement

This rural landholder engagement project, Healthy Land, Healthy Rivers (HLHR), focused on providing landholders with best practice land management education, tools and resources; and networking opportunities with community and industry partners.

# CAPABILITIES STATEMENT 2017

## GOVERNMENT AND NATURAL RESOURCE MANAGERS

A major part of the implementation of the project was to provide an online Property Management Planning (PMP) tool guideline and associated workshop.

The PMP guideline described how a landholder could undertake property management planning by utilising the information provided by Council's online property management tool. We also delivered a complementary workshop on property management planning outlining how to effectively utilise Council's online property management tool.

The development of the online property management planning 'tool' included developing and packaging the following:

### Mapping layers (and information):

- Aerial photograph
- Waterways
- Contours
- Remnant vegetation
- Property area and catchment background
- Riparian identification and management
- Fencing location and types
- Fire management
- Waste management
- Water sources and management
- Soil types and characteristics
- Animals –native and introduced- including stock management
- Pest (animal and weed) identification and management
- Plant identification and development
- Flood information

The second part of the project was to develop and deliver a PMP Online Tool - Workshop. EnviroSphere also, developed an "Example Property Management Plan" to be provided as a resource for attendees of the workshop.

The workshop's overarching theme was to bring about an improvement in catchment and waterway condition, with a focus on property productivity and lifestyle. The purpose of the workshop was to enable rural landholders to learn about Property Management Planning and enhance productivity and environmental conditions on their land. The workshop explored components (such as fencing, crop rotation, animal husbandry, etc.) for rural and semi-rural lots and ways to manage these, so that land holders could benefit from cost-effective and environmentally valuable outcomes. The workshop also included the use of the Tool and Guideline mentioned above and a demonstration by way of an example PMP of a property that successfully implemented property management planning.

# CAPABILITIES STATEMENT 2017

## GOVERNMENT AND NATURAL RESOURCE MANAGERS

The third and final part of the project was the “PMP Planning in Action Field Day”. The guided field tour selected a local property which was actively implementing PMP principles and offered the participants the opportunity to discuss property management “in action” including: weed and pasture management, native vegetation protection, poultry farming and moving from protein production to a mix of production and farm tourism.

### Client Type: Local Government – Environment and Tourist Parks

**Services:** Feasibility, Design & Planning

Our Consultancy assisted a City Council to identify, document and evaluate options for the relocation of several buildings at an Island camping area to new environmentally sound locations. The project involved the assessment of the condition of hard and soft assets on the site to determine issues and implications for relocation of the buildings. Envirosphere undertook an evaluation of the environmental opportunities and constraints of the site to develop impact statements for all relocation options. Outcomes of the project were a set of preliminary design options and development of a landscape plan, tree management plan and set of standard operating procedures for vegetation management activities on the site.

### Client Type: Catchment Management Organisation and State NRM Agency

**Services:** Assessment, Design, Consulting, Management Planning and Community Engagement

Envirosphere developed strategies to work collaboratively with landholders, to mitigate risks to source water quality in a rural catchment in South-east Queensland. Part of the brief was to identify potential contamination issues within each area and provide options for improvements to agricultural practices for current and future landholders. In collaboration with our NRM partners, we undertook surveys of agricultural enterprises in the study areas, provided a brief assessment of each property including condition assessment of waterways on each property, and developed a case study for each of the catchments and associated water treatment plants with options to improve on-ground management practices.

**Developing good working relationships with rural landholders through ongoing engagement was a key outcome for future engagement processes.**

# CAPABILITIES STATEMENT 2017

## SUSTAINABLE RURAL PRODUCTION

Our valued clients include Private Landholders, Rural Producers, Graziers, Poultry Farmers and Producer Groups that are seeking to run their businesses and manage their land in a more environmentally sustainable way. The team at Envirosphere appreciates the diverse needs of rural landholders and approaches to managing both the common and unique opportunities and challenges facing every owner. We work with our rural landholder clients to improve their understanding of the natural environmental values of their land.

Our services include: assisting with moving from traditional farming methods to more ecologically viable practices, helping identify and prepare plans to restore degraded land, assisting with pest management issues and related land management challenges, identifying potential impacts from their activities and management strategies to achieve the landholder's vision. We specialise in working with rural business owners to capture data about the characteristics of their properties, create long term plans for property management and improvement and implement property management plan actions.

We assist rural landholders in protecting and enhancing their land and ensuring that it achieves compliance with regulatory requirements and is sustainably managed. We also work with rural landholders to increase income and profitability by improving the condition and presentation of their property's land based assets or moving from traditional farming systems to mixed use farms and fully sustainable operations.

### Examples of services we can provide to Rural Landholders include:

- Property and farm management planning
- Soils analysis and investigations
- Soil, water and groundwater monitoring
- Waterway assessments and mitigation measures
- Ecological analysis (including terrain analysis, vegetation and fauna surveys)
- Pest Planning (weed and animal)
- Liaison with regulatory agencies
- Training in property management activities
- Project design, planning and management for land restoration activities
- Options evaluation and business case analysis for property management issues
- Preparing applications for grants funding
- Data capture and presentation (e.g. GIS map production)
- Property Map of Assessable Vegetation (PMAV)
- Vegetation assessments and clearing plans
- Sediment and erosion control plans
- Stock management planning

# CAPABILITIES STATEMENT 2017

## SUSTAINABLE RURAL PRODUCTION

### Client Type: Private Land Owner with Small Farm

**Services:** Assessment and Management Planning

Envirosphere developed a comprehensive Property Management Plan (PMP) for client to assist with the management of their 33ha property. The property owner's objectives were to gain a better understanding of the patches of native vegetation on their property, understand and quantify opportunities for pasture expansion and the general opportunities and constraints associated with all potential land management risks, such as ecologically threatening weeds, bushfire and erosion and soil degradation.

#### The aim of the project was to:

- Identify areas of suitable pasture and native vegetation, achieving a balance between the two in the most suitable areas for each;
- Plan for paddocks and water resources on the property;
- Identify weed problems on site and provide a strategy for the management of weeds.

We provided value to our client through identifying property specific risks such as erosion and high-risk weeds and outlining areas to be set aside for biodiversity. Our PMP provided a staged plan for rehabilitating degraded areas while identifying areas and outlining strategies for better use of part of their land for rural production purposes.

### Client Type: Rural Producer

**Services:** Assessment, Design and Planning

Envirosphere was engaged by our client to prepare a landscape plan for an expansion of a poultry farm that was moving to a free-range farming system.

#### Our project brief included:

- a survey and analysis of the site;
- review of State Development Area Development Scheme guidelines;
- sketch design and development based upon a topographic survey, review of site opportunities and constraints and consultation; and
- Preparation of a detailed landscape concept design for the MCU application

Our landscape Plan provided direction including the protection and enhancement of the local water bodies, treatments for the stabilisation of site batters and plants for screening and dust suppression.

# CAPABILITIES STATEMENT 2017

## SUSTAINABLE RURAL PRODUCTION

### Client Type: Rural / Industrial Business

**Services:** Environmental Monitoring and Reporting

Envirosphere worked in partnership with an Agronomist and a rural industrial business in the implementation of a trial is to improve soil quality through the addition of microbial soil amendments to pasture that is irrigated with high nutrient effluent water from the production facility

The research project measured changes to soil properties within an irrigated land application area for the purpose of enhancing the ability for the soil to capture and remediate waste water. The main concerns for the client included the reduction of nitrates, nitrites, sodicity and salinity in the soil to meet compliance requirements and return the land to a sustainable production system. Parameters measured to monitor changes in the soil profile included infiltration, soil density, subsurface moisture levels, chemical loading, and microbiological activity.

The project was undertaken over 2 years with Envirosphere undertaking 6-monthly monitoring of the trial plots, analysing field data and interpreting laboratory results and producing reports on the findings for our client and the regulator.

## Development Infrastructure & Ecotourism

**Envirosphere clients in this sector include Developers, Town Planners, Project Managers, Event Companies, Real Estates, Construction Companies, Eco-tourism and Nature-based Recreation Operators.**

There are numerous legislative and regulatory responsibilities related to development and infrastructure provision in both the public and private sectors. Experienced consultants at Envirosphere understand Council processes, State and Commonwealth government requirements and smooth the pathway to achieve the necessary approvals. Our team keeps up to date with legislative changes and industry requirements for applications, reports, management plans and project implementation.

## Intensive Industries

**Our clients in this industry sector include Quarries, Resources, Intensive Agriculture, Energy and Industrial companies.** Businesses in this sector generally operate under an Environment Authority (EA) and are often perceived as higher risk operations or are business that produce waste streams that must be carefully managed.

We understand EA requirements for intensive industries and have been involved with design, planning construction and ongoing operations. We work with our industry clients to provide key environmental information in the predesign, site selection and analysis phases of projects and we continue to offer environmental management advice and support our clients throughout the operational life of their business.

## Government & Natural Resource Managers

**Envirosphere clients in this sector include State and Local Government Agencies, Landcare, Water Resources, Parks and Wildlife Service, Private Conservation Land Managers, Catchment Groups and Indigenous Land Managers.**

We have extensive experience in working with conservation land managers in both the public and private sector. Envirosphere has an excellent understanding of the specific needs of conservation land managers and the unique opportunities and challenges facing this sector. Our experienced team work side-by-side with our conservation land management clients to increase their environmental knowledge and improve management of their land. We regularly prepare individual property plans and integrated conservation estate management plans that help our clients protect and enhance the lands that they manage. Our services also include the development of programs, brochures, interpretive signage and media to provide conservation based communications and feedback to stakeholder groups and the wider public.

## Sustainable Rural Production

**Our clients in this sector include Private Landholders, Rural Producers, Graziers, Poultry Farmers and Producer Groups** that are seeking to run their businesses and manage their land in a more environmentally sustainable way.

The team at Envirosphere appreciates the diverse needs of rural landholders and approaches to managing the unique opportunities and challenges facing every business owner. We work with our rural landholder clients to improve their understanding of the natural environmental values of their land, move from traditional farming methods to more ecologically viable practices, help identify and prepare plans to restore degraded land, assist with pest management issues and related land management challenges. We also identify potential impacts from farming activities and devise management strategies for improved agricultural practices, to achieve our client's vision of Sustainable Rural Production.



## ENVIROSPHERE CONSULTING CLIENTS

AJ Bush & Sons (Manufactures) Pty Ltd	Logan & Albert Catchments (LARC)
Australian Residential Corporation Pty Ltd	Logan City Council
Boral	Mishani Pty Ltd
Brisbane Valley Protein Pty Ltd	Mortons Urban Solutions
Bushcare Services	Natura Pacific
Bushland Protection Systems	Ngarang-Wal Gold Coast Aboriginal Association
Cardno	Ownit Homes
Christian Heritage College	Pacific Land & Ecological Sciences
Cliff Face Pty Ltd	Pip Consulting
Conhur	Regency Constructions (Qld) Pty Ltd
Dixon Homes	RPS Group
Eco-balance	SEQ Catchments
Eurofinance Pty Ltd	SEQWater
Ghost Gum Developments Pty Ltd	SoiLife Australia
Gold Coast City Council	Spaceframe Buildings Pty Ltd
Grandcare Systems	Sunshine Coast Regional Council
Guanaba Experience	Taylor Willis Town Planners
Horseshoe Properties Pty Ltd	Those Guys Events
Jagen Pty Ltd	Tombolo Pty Ltd
LM Planning Solutions	Welbourne Group

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