

Product and service outputs from the EIS to January 2015

Program	Product and Service Outputs							Deliverables
	Q4 2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	
Exploration and Environmental Coordination		<ul style="list-style-type: none"> Online confidential tracking of mining title applications by tenement applicants 	<ul style="list-style-type: none"> Online lodgement of mining tenement applications Online lodgement of 3 Mining Act forms <ul style="list-style-type: none"> Form 5 (operations) Form 16 (Objections) Form 18 (Exemption from expenditure) Online advertising of mining tenement application by RSS Feed Online lodgement and confidential tracking of <ul style="list-style-type: none"> Environmental Program of Works Mining proposals Online confidential tracking of <ul style="list-style-type: none"> Environmental management plans Oil spill contingency plans 	<ul style="list-style-type: none"> Online Mining Act <ul style="list-style-type: none"> Rental payments Form 9 (Extension of Term/Renewal of Tenement) Automation of graticular block selection for Exploration Licences Online confidential tracking of mining tenement applications proceeding through Native Title process Completion of development of EARS Online Environmental Application process (Petroleum) 	<ul style="list-style-type: none"> Online Mining Act <ul style="list-style-type: none"> Partial Surrender Transfers Management and registration of Caveats 	<ul style="list-style-type: none"> Completed "quick appraisal module" into online applications, determination and native title processing. Development of stage 1 of the TENGRAPH enquiry replacement module using Geocortex Framework 	<ul style="list-style-type: none"> Completed auto creation and attachment of TENGRAPH maps to notices using the Geocortex framework Continuing implementation of full appraisal into the mineral title management system, specifically in the area of title determination and native title management Design and implement clustered ArcGIS server/Geocortex infrastructure for scalable delivery of Web application services 	<ul style="list-style-type: none"> Over 65% of major transactions surrounding mining tenement applications and management are now conducted on line
Innovative Drilling		<ul style="list-style-type: none"> 29 Co-funded drilling projects completed. Total metres drilled ~60 000 m Major exploration investment promotion in China, Japan, Korea, North America Stratigraphic piggy-back coring of Bongabinni and Noonkanbah Formations and Acacia Sandstone 	<ul style="list-style-type: none"> 38 Co-funded drilling projects completed. Total metres drilled ~70 000 m Major exploration investment promotions in China, Japan, Korea, India, North America 	<ul style="list-style-type: none"> 53 Co-funded drilling projects completed. Total metres drilled ~82 500 m Major exploration investment promotions in China, Japan, Korea, India, North America, Europe Drilling and logging of GSWA Harvey 1 stratigraphic well to total depth of 2945 m 	<ul style="list-style-type: none"> First phase of Eucla drilling by GSWA undertaken with completion of 5 drillholes into the crystalline rocks beneath the Eucla Basin. 1 511 metres of core acquired as well as samples from 722 metres of reverse circulation drilling 44 Co-funded drilling projects completed. Total metres drilled ~58,800m Major exploration investment promotions in China, Japan, Korea, India, North America, Europe Acquisition of 65 metres of core from the Hickman crater 	<ul style="list-style-type: none"> Two stratigraphic holes were drilled into the basement rocks beneath the Eucla basin to retrieve core for further analytical work. Major exploration investment promotions in China, Japan, Korea, India, North America, Europe 59 Co-funded drilling projects completed. Total metres drilled ~ 83,000m 	<ul style="list-style-type: none"> The Co-funded exploration drilling program continued with the completion of round 8 (commenced in January 2014), and ongoing drilling in round 9 (2014/15 FY) as well as the commencement of R10 (2015) drilling projects 50 Co-funded drilling projects completed with ~ 78,000m drilled Major exploration investment promotions in China, Japan, Korea, North America Singapore Malaysia 	<ul style="list-style-type: none"> Co-funded drilling program has supported 275 projects, consisting of 432,580 m, drilled to June 2015 Contributed to discovery of <ul style="list-style-type: none"> Hand pump gold project Tropicana East gold project Lake Mackay uranium project Magnus gold project Yeneena copper-lead-zinc project Speewah vanadium-uranium project Nova nickel-copper deposit McIntosh graphite deposit Rinaldi copper deposit Oxley potash deposit Citadel gold, silver, copper, tungsten deposit Camelwood nickel deposit Millennium Zinc project Dusk Til Dawn gold project Webb diamond project Funded drilling of deep hole that assisted in decision by owners to reopen Mt Magnet gold mine Early indications that suitable reservoir and seal exists for long-term CO₂ storage for Collie Hub Information on the crystalline rocks below the Eucla Basin sediments
Geophysical and Geochemical Surveys	<ul style="list-style-type: none"> Cunderdin Gravity Survey Purchased existing TerraSearch WA exploration 	<ul style="list-style-type: none"> 208 000 line-km of airborne magnetics and radiometric acquired (9 survey areas) 	<ul style="list-style-type: none"> 1.1 million line-km of airborne magnetic and radiometric acquired (10 survey areas) 	<ul style="list-style-type: none"> 1.4 million line-km of airborne magnetic and radiometric acquired (12 survey areas) 	<ul style="list-style-type: none"> Pilot AEM survey in the Bryah Basin 717,000 line-km of airborne 	<ul style="list-style-type: none"> 200 km deep seismic acquired as an extension to the WA/SA border, of the Albany-Fraser deep crustal 	<ul style="list-style-type: none"> Seismic and gravity, raw and processed data packages of the Canning Basin (Kimberley) Deep 	<ul style="list-style-type: none"> Whole of State covered airborne magnetic and radiometric survey data New tenement applications in

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	and geochemical dataset	<ul style="list-style-type: none"> 21 000 2.5 km gravity stations acquired (3 survey areas) Establishment of gravity test range near York 256 km of deep seismic acquired in Capricorn Orogen and northern Yilgarn (Youanmi line) East Wongatha regolith geochemical and mapping survey 2 x 100 000 scale regolith landform map layers 	<ul style="list-style-type: none"> 22 000 2.5 km gravity stations acquired (3 survey areas) 236 km deep seismic acquired over Musgrave Province Extended Western Yilgarn Laterite Geochemical Atlas to the Murgoo area 	<ul style="list-style-type: none"> 31,500 2.5 km gravity stations acquired (3 survey areas) 592 km deep seismic acquired across the south eastern margins of the Yilgarn Craton and in the Albany-Fraser Orogen 	<ul style="list-style-type: none"> magnetic and radiometric data released Fugro Menzies-to-Norseman multiclient airborne magnetic and radiometric data acquired 11,815 2.5 km gravity stations acquired and released (1 survey area) 	<ul style="list-style-type: none"> seismic reflection line acquired along the Trans Australian Railway east of Kalgoorlie in 2012. 700 km of deep crustal seismic was acquired in the onshore Canning Basin. 720,000 line-km of airborne magnetic and radiometric data released. 16,010 2.5 km gravity stations acquired and released 	<ul style="list-style-type: none"> Crustal Geophysical Survey released in February 2015 Data from 11 662 gravity stations were acquired and released during the year from a survey in the area between Sir Samuel and Throssell 	<ul style="list-style-type: none"> Eucla Basin after airborne geophysical surveys released New EIS surveys completed. E-W seismic line from Shark Bay across WA to NT border and across the Eucla Basin to the SA Border.
3D Geological Mapping (including Unconventional Energy)		<ul style="list-style-type: none"> Software upgrades begin 250 line-km MT survey Southern Cross area Initiation of advanced geochronology program – Lu/Hf, Sm/Nd isotopic analyses Solid geology and regolith data acquisition commences in the Kimberley 	<ul style="list-style-type: none"> Software upgrades continue Solid geology and regolith data acquisition in the Kimberley, Capricorn and Gascoyne Orogens 200 line km MT survey Musgrave Province Four regional assessments of geothermal potential released Commencement of four major unconventional energy studies <ul style="list-style-type: none"> Tight gas reservoirs in the South Perth Basin Shale gas potential in the Perth Basin 3D modelling of the western Canning Basin (for CO₂ storage) Carbon storage atlas for strategic WA basins 100 line km, 2D seismic acquired in the Harvey area to locate GSWA Harvey 1 CO₂ stratigraphic test 	<ul style="list-style-type: none"> Software upgrades continue WAPIMS system upgrade completed Release of WA ASTER image dataset Solid geology and regolith data acquisition in the Kimberley, Capricorn and Gascoyne Orogens Release of 3 reports and 10 1:100 000 geological information series packages Capture of drilling and surface geochemistry from >10 000 exploration reports into database Completion of West Arunta and Musgrave targeting studies Report on tight gas reservoirs in the South Perth Basin released 	<ul style="list-style-type: none"> WAPIMS upgrade goes live on web Acquisition of 39,500 records in Bryah-Padbury basins form exploration reports Continuation of capture of drilling and surface geochemistry from >10 000 exploration reports into database 	<ul style="list-style-type: none"> Completion of collaborative project with Curtin University researching shale gas potential of Perth and Canning basins Completion of collaborative project with UWA on 3D modelling of Canning Basin for hydrocarbon resources and geological storage potential for CO₂. Release of carbon Storage atlas of strategic basins in WA. Release, via the web, of the mineral exploration drilling and geochemistry databases. Completion of CO₂ storage assessment of the on-shore western Eucla Basin. Redevelopment of WAMEX database. 	<ul style="list-style-type: none"> Online submission of mineral exploration reports Release of report on the Geosequestration potential of the Carboniferous-Permian Grant Group and Permian Poole Sandstone, northwest Canning Basin, Western Australia 	<ul style="list-style-type: none"> WAPIMS voted best Government petroleum database in the world by Fraser Institute petroleum industry survey First large scale Aster coverage in the world First comprehensive regional surveys of geothermal potential in WA Alternative technologies proposed to produce tight gas from Perth Basin other than by hydraulic fracturing First basin-by-basin outline of possible CO₂ storage sites in WA produced. Whicher Range Tight Gas Sands Study released The Mineral exploration drillhole database containing over 1.5million records, and the exploration geochemistry database containing over 4 million records available online via DMP website WA voted no. 5 in the world in the category of Geological Databases in the 2014 Fraser Institute Survey of Mining Companies
Strategic Industry Research		<ul style="list-style-type: none"> Funding to MERIWA 	<ul style="list-style-type: none"> First MERIWA project supported by EIS, 'North East Yilgarn biogeochemistry project' completed EIS funding assigned to 3 new MERIWA projects 3 WA Regional Researcher Initiative programs, managed by CSIRO, commenced 	<ul style="list-style-type: none"> MERIWA projects funded by EIS continuing WA Regional Researcher Initiative programs continuing 	<ul style="list-style-type: none"> MERIWA projects funded by EIS continuing WA Regional Researcher Initiative programs continuing 	<ul style="list-style-type: none"> MERIWA/ MRIWA projects funded by EIS continuing Two of the three WA Regional Researcher Initiative projects completed 	<ul style="list-style-type: none"> MERIWA projects funded by EIS continuing 	<ul style="list-style-type: none"> First MERIWA project supported by EIS, 'North East Yilgarn biogeochemistry project' completed Release of 2 publications detailing the results of the WA Regional Researcher Initiative projects.
Sustainable Working Relationships with Aboriginal Communities <i>Note: Emergence of a whole of government approach to Aboriginal land access issues where Native Title has</i>		<ul style="list-style-type: none"> Completion of two Regional Heritage surveys to conduct GSWA geochemical programs Community awareness activities about uranium mining and transport in Kalgoorlie, Leonora, Wiluna, Menzies, and 	<ul style="list-style-type: none"> In association with the Department of Indigenous Affairs, began funding of a project to remap the 100 km² buffer zone surrounding registered Heritage Sites 	<ul style="list-style-type: none"> Completed remapping many buffer zones to 1 km² Began scanning of the approximately 6500 hard copy Heritage Reports held by the Department of Indigenous Affairs 	<ul style="list-style-type: none"> Continued scanning of the approximately 6500 hard copy Heritage Reports held by the Department of Indigenous Affairs with over 2000 reports scanned by end of December 2012 	<ul style="list-style-type: none"> Completion of scanning of 7458 heritage reports held by Department of Aboriginal Affairs. <i>Completion of Sustainable Working Relationships with Aboriginal Communities program</i> 		<ul style="list-style-type: none"> Increased area for low risk access for exploration

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already been determined overtook some of the EIS activities under this program		Laverton						