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PROJECT HISTORY

THIS Group :

Total Hazardous and Integrated Solutions Ltd

Total Hazardous and Integrated Solutions Co Ltd

THIS Services (TH) Co Ltd

Project History List 2025 (THIS) DETAILED.xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
2025	TechnipFMC / Woodside	Australia	Management of Onshore Dismantling & Decommissioning Facility - HazMat Section	HazMat Monitoring, Vapour Suppression, Sludge Capture & Management, Chemical Decontamination and High Pressure Water Jetting (HPWJ) of Decommissioned Subsea Assets, Waste Minimisation, Water Filtration, Field Analysis, Local & International Waste Disposal	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge BTEX NORM / TENORM Methanol (liquid) Marine Growth
2025	Santos	Australia	Decontamination of Decommissioned Subsea Tubulars	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, HPWJ Decontamination	NORM / TENORM
2024	TechnipFMC / Woodside	Australia	Management of Onshore Dismantling & Decommissioning Facility - HazMat Section	HazMat Monitoring, Vapour Suppression, Sludge Capture & Management, Chemical Decontamination and High Pressure Water Jetting (HPWJ) of Decommissioned Subsea Assets, Waste Minimisation, Water Filtration, Field Analysis, Local & International Waste Disposal	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge BTEX NORM / TENORM Methanol (liquid) Marine Growth
2024	TechnipFMC / Woodside	Australia	Design, Fabrication and Operation of Offshore Water Filtration System (OWFS)	HazMat Monitoring, Proprietary Filtration Media and Cartridge Systems, Wastewater Analysis	NORM / TENORM Mercury Mercury Compounds Oil in Water
2024	Wood / BSP	Brunei	Provision of Bespoke 20t/day Reverse Osmosis (RO) Water Makers to support water provisions for Asbestos Removal project	Trained Personnel, Bespoke RO System, Feed Delivery Package, Export Delivery Package	Hydrocarbons Chlorides
2024	Petrofac	Australia	HazMat Survey, Mercury & NORM Assessment of FPSO Vessel Prior to Decommissioning	HazMat Training, HazMat Survey and Assessment, Procedure Writing, Provision of Portable Analytical & Monitoring Systems	Mercury Mercury Compounds NORM / TENORM Hydrocarbon Sludge
2024	Santos	Australia	Decontamination of Decommissioned Subsea Tubulars	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, HPWJ Decontamination	NORM / TENORM

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2024	Wood / BSP	Brunei	Offshore HazMat Vessel Cleaning, Monitoring & Waste Management for Major SD & TA	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Process Piping, Semi-automated Vessel Cleaning, Consultancy, CSE Rescue Teams 35x Process Vessels, across 7x platforms, FULLY Decontaminated <28 days, AHEAD OF SCHEDULE and UNDER BUDGET Slugcatcher - CRITICAL PATH = 4 days AHEAD OF SCHEDULE	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge BTEX
2024	BW Offshore	Oman	HazMat Survey & Mercury Assessment of FPSO Vessel Prior to Repurposing, Sale, Maintenance or Decommissioning	HazMat Survey and Assessment, Provision of Portable Analytical & Monitoring Systems	Mercury Mercury Compounds
2024	Sapura Energy / Chevron	Thailand	Decommissioning Support Services	Mercury Monitoring & Waste Management of Decommissioned Risers	Mercury Hydrocarbons
2023	TechnipFMC / Woodside	Australia	Decontamination of Decommissioned Subsea Manifolds	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Chemical Decontamination, Thermal Verification	NORM / TENORM Mercury Mercury Compounds H2S
2023	McMahon Services / Woodside	Australia	Decontamination of Decommissioned Subsea Manifolds, Flow Bases and Tubulars	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Chemical Decontamination, Thermal Verification	NORM / TENORM Mercury Mercury Compounds H2S
2023	Wood / BSP	Brunei	Provision of Bespoke 20t/day Reverse Osmosis (RO) Water Maker to support water provisions for Asbestos Removal project	Trained Personnel, Bespoke RO System, Feed Delivery Package, Export Delivery Package	Hydrocarbons Chlorides
2023	Wood / BSP	Brunei	Offshore HazMat Vessel Cleaning, Monitoring & Waste Management for Major SD & TA	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Process Piping, Semi-automated Vessel Cleaning, Consultancy, CSE Rescue Teams 23x Process Vessels, across 3x platforms, FULLY Decontaminated <32 days, ON SCHEDULE and UNDER BUDGET	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge BTEX

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2023	TechnipFMC / Woodside	Australia	Design, Fabrication and Operation of Offshore Water Filtration System (OWFS)	System Design, Procedure Design & Writing, Fabrication, Function Testing and Verification, Proprietary Filtration Media and Cartridge Systems, Wastewater Analysis	NORM / TENORM Mercury Mercury Compounds Oil in Water
2023	Brunei Shell Petroleum (BSP)	Brunei	Decommissioning, Transportation and Final Disposal of Benchtop XRF Analysers	Unit Disassembly, International Shipping, Final Disposal, HazMat Monitoring and Assessment	X-Ray Radiation Source
2023	Brunei Methanol Company (BMC)	Brunei	Redrumming of Spent Catalyst Waste	HazMat Monitoring, Pyrophoric Suppression, Portable Vacuum Package, Waste Transfer and Repackaging, Wastewater Analysis, Wastewater Filtration. Waste Minimisation and Disposal	Iron Sulphide Copper Nickel
2023	Wood / BSP	Brunei	Provision of Bespoke 20t/day Reverse Osmosis (RO) Water Maker to support water provisions for Turn Around (TA) Vessel Cleaning scope	Trained Personnel, Bespoke RO System, Feed Delivery Package, Export Delivery Package	Hydrocarbons Chlorides
2023	TechnipFMC / Woodside	Australia	Design, Implementation & Management of Onshore Dismantling & Decommissioning Facility (HazMat)	HazMat Monitoring, Vapour Suppression, Sludge Capture & Management, Decontamination of Decommissioned Subsea Assets, Waste Minimisation, Water Filtration, Field Analysis, Local & International Waste Disposal	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge BTEX NORM / TENORM Methanol (liquid)
2023	Sapura Energy / Chevron	Thailand	Decommissioning Support Services	Mercury Monitoring & Waste Management of Decommissioned Risers	Mercury Hydrocarbons
2022	Brunei Shell Petroleum (BSP)	Brunei	Descaling of Subsea Pipeline	Multi-skilled Personnel, HazMat Monitoring, Chemical Pumping Package, Consultancy, Descaling Chemicals	Barite
2022	McMahon Services / Woodside	Australia	HazMat Survey, Mercury & NORM Assessment of Decommissioned Subsea Assets	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Cold-cutting of Process Piping, Field and Laboratory Analysis of Internal Structure, Consultancy	NORM / TENORM Mercury Mercury Compounds H2S

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2022	Wood / BSP	Brunei	Offshore HazMat Vessel Cleaning, Monitoring & Waste Management for Major SD & TA	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Process Piping, Semi-automated Vessel Cleaning, Consultancy, CSE Rescue Teams 38x Process Vessels, across 3x platforms, FULLY Decontaminated <28 days, AHEAD OF SCHEDULE and UNDER BUDGET	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge BTEX
2022	Wood / BSP	Brunei	Offshore HazMat Vessel Cleaning, Monitoring & Waste Management	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Process Piping, Semi-automated Vessel Cleaning, Consultancy	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge
2022	BW Offshore	Indonesia	HazMat Survey & Mercury Assessment of FPSO Vessel Prior to Repurposing, Sale, Maintenance or Decommissioning	HazMat Survey and Assessment, Provision of Portable Analytical & Monitoring Systems	Mercury Mercury Compounds
2022	BW Offshore	Oman	HazMat Survey & Mercury Assessment of FPSO Vessel Prior to Repurposing, Sale, Maintenance or Decommissioning	HazMat Survey and Assessment, Provision of Portable Analytical & Monitoring Systems	Mercury Mercury Compounds
2021	Expro-PTI	Thailand	Mercury Decontamination of Gas Compression Skid Units	Mercury Decontamination, Waste Management, Manual Decontamination, Supplementary Pipe Fitting, Surface Decontamination	Mercury Mercury Compounds
2021	Wood / BSP	Brunei	Offshore HazMat Monitoring	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Smart Plug, Consultancy	NORM / TENORM Mercury Benzene H2S
2021	Wood / BSP	Brunei	Offshore High Pressure Water Jetting & Debris Removal from Lube Oil Cooler Systems	Multi-skilled Personnel, Spill Containment, High Pressure Water Jetting (<2100 bar), Vacuuming of Exchanger Header Boxes, Lube Oil Filtration, Borescope Inspection	Lube Oil Corrosion Scale
2021	Greig Green / BW Offshore	India	HazMat Survey & Mercury Assessment of FPSO Vessel Prior to Decommissioning	HazMat Training, HazMat Survey and Assessment, Procedure Writing, Provision of Portable Analytical & Monitoring Systems	Mercury Mercury Compounds Hydrocarbon Sludge
2021	Sea Sentinels	Indonesia	IHM Survey & Sampling (Class NK)	Inventory of Hazardous Materials on board bulk carrier prior to entering flagstate waters	Mercury, Radiation Asbestos, PFOS, PFAS, PFOA PCB, PBB, TBT, Lead, BBDE Refrigerants, SCCP, HBCDD, ODS

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2021	Wood / BSP	Brunei	Offshore HazMat Vessel Cleaning	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Process Piping, Semi-automated Vessel Cleaning, Consultancy	NORM / TENORM Mercury Benzene H2S
2021	John Crane	Thailand	Rapid Response Mercury Decontamination Services	Mercury Decontamination of Gas Lift Compressor Seals	Mercury
2021	BSP Lab (OPC)	Brunei	Wax Removal & Wax Inhibition Treatment Chemicals	Laboratory Testing, Procedure Writing, Authoring of Treatment Programs	Paraffin Wax
2021	Energy Development Corporation (EDC)	Philippines	Chemical Descaling & Non-Acidizing Well Treatment Support Services	Assessment/Investigation of Problematic Well Conditions, Laboratory Analysis & Chemical Testing, Authoring of Treatment Program, Procedure Writing, Chemical Application, Performance Monitoring	Silicate Scale Sulphate Scale Silica Carbonate Scale
2021	IKEA	Thailand	Gas Detection Training & System Management	Configuration of Portable Multi-Gas Measurement Units, User Training and Assessment	Carbon Monoxide (CO) Hydrogen Cyanide (HCN) Formaldehyde (CH2O) Phosphine (PH3) Volatile Organic Compounds (VOC)
2021	Rennah Services	Brunei	Radiation Management Services	Development and Implementation of Radiation Response Plan (RRP), Procedure Authoring (Handling, Stabilisation, Packaging, TFS Logistics, Destruction of Energising Components, Disposal of Emmissive Materials), Training & Assessment	NORM / TENORM (Sludge / Scale) XRF / XRD Energising Tubes Radionuclides (Fluids)
2021	BHP	Australia	Modelling Assessment for In-Situ Decontamination of Decommissioned Pipeline	Dispersal and Biological Transfer of Residual Mercury Contamination on Abandoned Subsea Pipelines	Mercury Mercury Compounds
2021	Wood	Brunei	HazMat Support for Offshore Waste Minimisation, Local Disposal (Non-Haz) & TFS Disposal (Haz/Hg)	HazMat Monitoring, Vapour Suppression, Sludge Separation (Centrifugal) & Management, Decontamination of Platform Decks and Work Areas, Waste Minimisation, Water Filtration, Field Analysis, Local & International Waste Disposal	Mercury Mercury Compounds Pyrophoric Hydrocarbons Various Chemical Residue

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2021	Chevron	Thailand	Decommissioning Support Services	Mercury Decontamination of Decommissioned Process Equipment	Mercury Hydrocarbons Arsenic
2021	Brunei Ministry of Health (MOH)	Brunei	HazMat Support for Mercury Waste Management & TFS Disposal	Mercury Waste Management, Collection and Packaging of Obsolete Hg Thermometers, Sphygmometers and Medicines, Packaging of Shipping Drums, Container Stuffing, Waste Labelling, TFS Documentation & International Waste Disposal	Mercury Mercury Compounds
2020	Thai Oil	Thailand	Mercury Vapour Detection Training & System Maintenance	Configuration of Portable Mercury Vapour Analysers, User Training and Assessment	Mercury Mercury Compounds
2020	BSP Refinery	Brunei	HazMat Support for Onshore Waste Minimisation & TFS Disposal	HazMat Monitoring, Vapour Suppression, Sludge Separation & Management, Decontamination of Drums, Drum Crushing, Waste Minimisation, Water Filtration, Field Analysis, Local & International Waste Disposal	Mercury Mercury Compounds Pyrophoric
2020	BSP Lab & Clinic	Brunei	HazMat Support for Mercury Waste Management & TFS Disposal	Mercury Waste Management, Packaging of Drums, Container Stuffing, Waste Labelling, TFS Documentation & International Waste Disposal	Mercury Mercury Compounds
2020	BLNG	Brunei	HazMat Support for Onshore Waste Redrumming & TFS Disposal	HazMat Monitoring, Pyrophoric Deactivation, Vapour Suppression, Sludge Management, Decontamination of Drums, Drum Crushing, Waste Minimisation, Water Filtration, Field Analysis, Local & International Waste Disposal	Mercury Pyrophoric
2020	Baker Hughes	Thailand	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2020	BM Jet	Thailand	Gas Detection Training & System Management	Configuration of Portable Multi-Gas Measurement Units, User Training and Assessment	Carbon Monoxide (CO) Hydrogen Sulphide (H2S) Oxygen (O2) Lower Explosive Limit (LEL)

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2020	Chevron	Thailand	Decommissioning Support Services for RTR (Rig To Reef) Project	Mercury & HazMat Decontamination and Disposal of Decommissioned Riser Sections	Mercury Hydrocarbons Arsenic Marine Growth
2020	John Crane	Thailand	Rapid Response Mercury Decontamination Services	Mercury Decontamination of Gas Lift Compressor Seals	Mercury
2020	Sea Sentinels	Thailand	IHM Survey & Sampling (Class NK)	Inventory of Hazardous Materials on board bulk carrier prior to entering flagstate waters	Mercury, Radiation Asbestos, PFOS, PFAS, PFOA PCB, PBB, TBT, Lead, BBDE Refridgerants, SCCP, HBCDD, ODS
2020	Wood / BSP	Brunei	Offshore HazMat Vessel Cleaning	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Pressure Vessels, Semi-automated Vessel Cleaning, Consultancy	NORM / TENORM Mercury Benzene H2S
2020	Precision Power Services	Thailand	HazMat Waste Management	Transportation, Waste Minimisation and Final Disposal of Mixed Hazardous Waste	Hydrocarbons
2020	Sea Sentinels	Thailand	IHM Survey & Sampling	Inventory of Hazardous Materials on board platform prior to decommissioning	Mercury, Radiation Asbestos, PFOS, PFAS, PFOA PCB, PBB, TBT, Lead, BBDE Refridgerants, SCCP, HBCDD, ODS
2020	PT. CMS	Indonesia	HazMat Survey & Mercury Assessment	Non-Destructive (Spot) Surface Analysis Non-Destructive Product/System Analysis Confined Space Entry	Mercury Mercury Compounds
2020	Sapura Energy	Thailand	Decommissioning Support Services	Mercury Monitoring & Waste Management of Decommissioned Risers	Mercury Hydrocarbons
2020	Tiger Offshore	Thailand	Boat Tank Cleaning	Non-Hazardous Material Pumping, Tank Cleaning and Final Waste Disposal	Saraline Cement Powder
2020	Petronas	Malaysia	Mercury Management Training	Mercury Overview, Removal Technologies & Applications, Decontamination, Biological Monitoring, Procedure Writing, Legal Compliance, Sampling Techniques & Procedures, Specialist PPE	Mercury Mercury Compounds
2020 - Present	ConocoPhillips / Santos	Australia	Mercury Assessment for In-Situ Decontamination of Decommissioned Pipeline	Sample Capture, Laboratory Analysis, Chemical Decontamination	Mercury Mercury Compounds NORM

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2019 - Present	Chevron	Thailand	Decommissioning Support Services	Mercury Decontamination of Decommissioned Process Equipment	Mercury Hydrocarbons Arsenic
2019	BHP	Australia	Mercury Assessment for In-Situ Decontamination of Decommissioned Pipeline	Sample Capture, Laboratory Analysis, Chemical Decontamination	Mercury Mercury Compounds
2019	Bourbon Offshore	Thailand	Supply Boat Tank Cleaning Services	Confined Space Entry, Tank Demucking, Tank Cleaning, Waste Volume Reduction, Final Waste Disposal	Hydrocarbons
2019	BLNG	Brunei	HazMat Support for Onshore PIG Receiver	HazMat Monitoring, Pyrophoric Deactivation, Vapour Suppression & Sludge Management	Benzene H2S Pyrophoric
2019	Wood / BSP	Brunei	Offshore HazMat Monitoring	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Decontamination of Smart Plug, Consultancy	NORM / TENORM Mercury Benzene H2S
2019	Shell	Philippines	Procedure Writing & Consultancy	Personnel & Site Safety Procedures for Mercury	Mercury Mercury Compounds
2018	PTTGC	Thailand	Online Filtration of Mercury from Condensate	Filtration, On-site Analysis, Waste Management	Mercury Arsenic
2018	Vroon Offshore	Thailand	Supply Boat Tank Cleaning Services	Confined Space Entry, Tank Demucking, Tank Cleaning, Waste Volume Reduction, Final Waste Disposal	Hydrocarbons Cement Barite Mud
2018	Wood / BSP	Brunei	Offshore HazMat Monitoring	Multi-skilled Personnel, HazMat Monitoring, Vapour Suppression, Spill Containment, Consultancy	NORM / TENORM Mercury Benzene
2018	BLNG	Brunei	Decontamination of O2-rich piping system	Chemical Decontamination, Continuous Monitoring, VOC Monitoring & Verification	Hydrocarbons Adhesive
2018	BLNG	Brunei	Stabilisation & Packaging of Haz-Mat Drums prior to TFS (transboundary) shipment	HazMat Consultancy, High Risk Activity, Toxic Gas Purge, Continuous Monitoring, Analysis, Waste Stabilisation, Pumping & Repackaging	Mercury H2S Pyrophorics VOC Benzene

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2018	BLNG	Brunei	De-Pressurisation & Re-drumming of Warped Haz-Mat Drums prior to TFS (transboundary) shipment	HazMat Consultancy, High Risk Activity, Toxic Gas Purge, Continuous Monitoring, Analysis, Waste Stabilisation, Pumping & Repackaging	Mercury H2S CO VOC Benzene
2018	BLNG	Brunei	Bespoke High-Risk LEL/Inert Entry, Isolation and Decontamination (2 of 2)	LEL/Inert High Risk Confined Space Entry, Internal Isolation of System, Chemical Decontamination, Continuous Monitoring of Isolation Systems during 3rd Party Hot-Work Activities	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Pyrophoric Scale
2018	Swire Oilfield Services	Thailand	Tank Cleaning & Testing Services	Automated Tank Cleaning, Waste Disposal, HydroTest Services (w. 3rd Party Verification)	Hydrocarbons
2018	Coastal Energy (CEC)	Thailand	Procedure Writing for Hg Decontamination & Disposal of Offshore Gas MRU Units & Media	Mercury Management Plan (MMP), Consultancy	Mercury Mercury Compounds
2018	Tidewater Marine Charter Services	Thailand	Supply Boat Tank Cleaning Services	Confined Space Entry, Tank Demucking, Tank Cleaning, Waste Volume Reduction, Final Waste Disposal	Cement Barite Mud
2018	Tecnomar	Indonesia	Decontamination & MMP Survey	HazMat Survey, Assessment, Analysis, Mercury Management Plan (MMP), Procedure Writing, Consultancy	Mercury Mercury Compounds Hydrocarbon Sludge
2018	BLNG	Brunei	De-Pressurisation of Warped Haz-Mat Drums	HazMat Consultancy, High Risk Activity, Toxic Gas Purge, Continuous Monitoring, Analysis	Mercury H2S CO VOC Benzene
2018	BLNG	Brunei	Bespoke High-Risk LEL/Inert Entry, Isolation and Decontamination (1 of 2)	LEL/Inert High Risk Confined Space Entry, Internal Isolation of System, Chemical Decontamination, Continuous Monitoring of Isolation Systems during 3rd Party Hot-Work Activities	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Pyrophoric Scale

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2018	EMAS Energy Services	Thailand	Supply Boat Tank Cleaning Services	Confined Space Entry, Tank Demucking, Tank Cleaning, Waste Volume Reduction, Final Waste Disposal	Cement Barite Mud
2018	SolstadFarstad ASA	Singapore	Mercury Management Plan (MMP)	Mercury Awareness, Handling and Decontamination Training Course. Biological Monitoring Services	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2018	Coastal Energy (CEC)	Thailand	Sample Capture and Analysis of Decommissioned Tubulars from P&A Activities	Mercury Monitoring, Vapor Analysis, XRF Analysis, Cold-cutting, Laboratory Analysis (Acid Digestion & CVAAS)	Mercury Arsenic
2017	Coastal Energy (CEC)	Thailand	Biological Monitoring Services	Sample Capture, Analysis and Assessment of Mercury Pre- & Post- Project Exposure	Mercury
2017	Coastal Energy (CEC)	Thailand	Mercury Monitoring During Plugging & Abandonment	Mercury Vapor Analysis, XRF Analysis, Mercury Vapour Suppression	Mercury Volatile Organic Compounds (VOC)
2017	PT. Green World Nusantara	Indonesia	EOR / Scale Study	Scale Analysis, Compounds Investigative Analysis, Chemical Testing	Carbonate Scales (Fe, Mg, Ca, Sr) Hydrocarbons Water Content
2017	SC Group	Thailand	Design, Implementation & Management of Onshore Platform Decommissioning Facility	Mercury Decontamination, HazMat Supervision, Facility Containment, Waste Management, Specialist PPE, Manual Decontamination, Benzene Suppression, Pyrophoric Deactivation	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2017	Chevron	Thailand	Mercury Decontamination of Steel Study for Decommissioning Works	Process Simulation, Chemical Desorption, Chemical Decontamination, Analytics, Chemical Blending, XRF Analysis	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Marine Growth
2017	PTT Plc	Thailand	Offshore Gas Knock Out Drum Cleaning	Sludge Removal, Pyrophoric Deactivation, Mercury-contaminated Sludge, Non-manned Entry, Semi-automated Tank Cleaning	Mercury Hydrocarbon Vapours Pyrophoric Scale

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2016	CR Asia	Thailand	Gas Detection Training & System Management	Configuration of Portable Multi-Gas Measurement Units, User Training and Assessment	Carbon Monoxide (CO) Hydrogen Cyanide (HCN) Formaldehyde (CH ₂ O) Ammonia (NH ₃) Volatile Organic Compounds (VOC)
2016	Coastal Energy (CEC)	Thailand	MRU Media Removal	Media Bed Assessment, Analysis, Vapour Suppression, Chemical Decontamination, Waste Management, Final Waste Disposal	Mercury Mercury Compounds
2016	Coastal Energy (CEC)	Thailand	Platform Decontamination	Semi-automated Tank Cleaning, Chemical Cleaning, Hydrocarbon Decontamination	Mercury Hydrocarbon Sludge VOC LEL
2015 - 2016	Strategic Chemistry	Australia	Procedure Writing	Consultancy & Review of Written Procedures	Mercury
2013 - 2016	TD Williamson	Singapore	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2013 - 2015	Tractors Petroleum (TPS)	Malaysia	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2015	PTTEP	Thailand	Development of Mercury Desorption & Decontamination Chemical for Subsea Pipeline Decontamination	XRF Analytical Study, Glow Discharge Mass Spectrometry (GDMS), Scanning Electron Microscope (SEM), Inductively Coupled Plasma – Mass Spectrometry (ICP-MS), Mercury at Depth in Carbon Steel, Mercury Desorption, PIG Train Design	Mercury Mercury Compounds
2015	ITT Fluid Technology	Thailand	Mercury Decontamination of Multi-Stage Pump	Mercury Decontamination, HazMat Supervision, Facility Containment, Waste Management, Specialist PPE, *Working with Mercury at Elevated Temperatures, IDLH*	Mercury Mercury Oxide
2015	Coastal Energy (CEC)	Thailand	MRU Performance Assessment	Mercury Speciation Analysis, Mercury Mapping, Mercury Volatilisation Study, MRU Consultancy, MRU Performance Assessment	Mercury
2015	Coastal Energy (CEC)	Thailand	MRU Pre-Installation	Mercury Decontamination of Carbon Steel Prior to Hot Works	Mercury Mercury Oxide

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2015	Coastal Energy (CEC)	Thailand	Gas Assay, Onsite Chemistry	Sample Capture, Onsite Analysis, Speciation, Mass Balance	Mercury Mercury Compounds
2015	Coastal Energy (CEC)	Thailand	PPE Assessment	Assessment of PPE Usage and Practices, Re-assessment for Combination Contaminants, Re-assessment for Working Conditions & Performance Degradation	Mercury H2S CO2
2015	Petronas	Malaysia	Mercury Management Training	Mercury Overview, Removal Technologies & Applications, Decontamination, Biological Monitoring, Procedure Writing, Legal Compliance, Sampling Techniques & Procedures, Specialist PPE	Mercury Mercury Compounds
2014	Exterran	Thailand	Mercury Decontamination of Valves & Ancillaries	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2014	Coastal Energy (CEC)	Thailand	Mercury Decontamination of Surge Tank	Mercury Desorption, Waste Management, Specialist PPE, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2014	Expro PTI	Thailand	Mercury Decontamination of Skid Units	Mercury Desorption, System Decontamination, Waste Management, Confined Space	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2014	Premier Oil	Indonesia	Mercury Management Plan (MMP)	Gap Analysis, Procedure Overhaul, Offshore & Onshore Facility Investigation, Product Stream Analysis, Biological Monitoring, Waste Management, International Waste Disposal (Basel Convention), MRU Engineering, HazMat Training	Mercury Mercury Compounds
2014	Thermochem/PEI	USA	Procedure Writing for LNG Technology Mercury HES Manual	HazMat Decommissioning, Mercury Decontamination, Waste Management, Facility Containment, Contingency Plan	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2014	BLNG	Brunei	Mercury Decontamination of Slug Catcher Boot	Mercury Decontamination, HazMat Supervision, Facility Containment, Waste Management, Specialist PPE, Manual Decontamination, Benzene Suppression, Pyrophoric Deactivation	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Pyrophoric Scale

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2013	WASCO Engineering Intl	U.A.E.	Mercury Decontamination of Gas Compression Skid Unit	Mercury Decontamination, Waste Management, Manual Decontamination, Supplementary Pipe Fitting, Surface Decontamination	Mercury Mercury Compounds
2013	Exterran	Pakistan	Root Cause & HazMat Investigation	Mercury Vapor Analysis, XRF Analysis, Analysis of Gas Streams & Liquid Hydrocarbons, Training Services, Gas Sampling, HazMat Investigation, Chemical Decontamination of BAHX	Mercury Mercury Compounds
2012	Almansoori	Thailand	HazMat Site Investigation & Remediation	Field Chemistry, Root Cause Analysis, Procedure Overhaul, HazMat Training, Site Remediation	Hydrocarbon Vapours Hydrocarbon Sludge Petroleum Fuel
2012	M-I SWACO	Thailand	Mercury Decontamination of Skid Units	Chemical Decontamination of Wellhead Desander Skid Unit	Mercury Hydrocarbon Deposits
2011	APICO	Thailand	Drill Site Restoration	Field Chemistry, Site Remediation, Destructoin and Removal of Concrete Structures, Grading of Land, Replacement of Top Soil	Hydrocarbon Deposits Petroleum Fuel
2011	PTTAR	Thailand	Refinery Shutdown Support Services	Vapour Suppression, Steam & Chemical Decontamination, Vessel Cleaning, Confined Space Entry, Waste Management	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Pyrophoric Scale
2011	APICO	Thailand	H2S Safety Services for Exploration Drilling	Technical Expertise, Management and Deployment of H2S Safety Systems, HazMat Training, Provision of Certified HazMat Technicians, Continuous H2S Monitoring Services	H2S Hydrocarbon Vapours
2011	Exxonmobil (Esso)	Thailand	Rapid Response Vessel Decontamination Services	Chemical Decontamination of Sour Water Treatment System Surge Drum	BTEX Ammonia Hydrocarbon Sludge
2010	Chevron	Thailand	Mercury Assessment & Decontamination of FSO Storage Tanker Prior to Maintenance Works	Mercury Decontamination, HazMat Supervision, Welding Supervision, Mercury Desorption (COMBINED Mechanical & Chemical Process), Specialist PPE, Manual Decontamination, Benzene Suppression, XRF Analysis	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2010	Chevron	Thailand	Vessel Cleaning & Mercury Decontamination (Sump Tank)	Mercury Decontamination, HazMat Supervision, Chemical Flushing, Specialist PPE, Manual Decontamination, Benzene Suppression	Mercury Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2009	NuCoastal	Thailand	Produced Water Filtration System	Design, Fabrication & Installation of Continuous Process Produced Water Filtration System	Mercury Arsenic TPH

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2009	Chevron	Thailand	HazMat Shutdown Services, Glycol Train Cleaning & Decontamination, FWKO Drum Modifications	Mercury Decontamination, HazMat Supervision, Chemical Flushing, Specialist PPE, Manual Decontamination, Benzene Suppression	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours TEG
2009	Cardinal Resources	Thailand	Warehouse Decontamination	Site Assessment, Vapour Suppression, Decontamination	Mercury
2009	Salamander Energy	Thailand	Platform Cleaning & Decontamination	Chemical Cleaning & Decontamination of Process & Wellhead Platforms	Hydrocarbon Sludge Mercury
2009	Chevron	Thailand	Mercury Decontamination of MRU Train	Mercury Decontamination, HazMat Supervision, Welding Supervision, Mercury Desorption (COMBINED Mechanical & Chemical Process), Specialist PPE, Manual Decontamination, Benzene Suppression, XRF Analysis	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2009	Origin Energy	Australia	Decontamination of Process Platform	HazMat Training, HazMat Survey and Assessment, Procedure Writing, Provision of Portable Analytical & Monitoring Systems, Semi-automated Tank Cleaning, Chemical Cleaning, Hydrocarbon Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge Hydrogen Sulphide Benzene & VOC
2008	PTTEP	Thailand	HazMat Cleaning Services	Chemical Cleaning of Air Fin Cooler, Condensate Heater	Mercury Hydrocarbon Deposits
2008	J. Ray McDermott	Vietnam	Mercury HazMat Supervision	HazMat Training, HazMat Supervision	Mercury
2008	Chevron	Thailand	Mercury HazMat Supervision & Decontamination for Platform TA & SD	Mercury Decontamination, HazMat Supervision, Facility Containment, Specialist PPE	Mercury Hydrocarbon Sludge VOC LEL
2008	Alliance Refining (ARC)	Thailand	Refinery Shutdown Support Services	Vapour Suppression, Steam & Chemical Decontamination, Vessel Cleaning, Confined Space Entry, Waste Management	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Pyrophoric Scale
2007 - 2011	DresserRand	Indonesia	Mercury Decontamination Services	Mercury Decontamination of Gas Lift Compressor	Mercury Mercury Compounds
2007	Chevron	Thailand	Mercury Decontamination of IP Separator	Mercury Decontamination, HazMat Supervision, Facility Containment, Waste Management, Specialist PPE, Manual Decontamination, Benzene Suppression	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge
2007	GE Oil & Gas	Thailand	Mercury Decontamination Services	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2007	Chevron	Thailand	Cement Removal from Open & Closed Drain System	Cement/Concrete Breaking, Acid Wash, Spill Containment, Waste Management	Cement Concrete
2007	MODEC	Vietnam	Mercury Assessment & Management Plan (MMP) of FPSO	HazMat Training, HazMat Survey and Assessment, Procedure Writing, Provision of Portable Analytical & Monitoring Systems, HazMat Hot-Work Practices & Safety Protocols	Mercury Mercury Compounds H2S
2007	Chevron	Thailand	Mercury Containment & Decontamination of Subsea Drip Trays	Mercury Containment, Decontamination, Waste Management, Manual Decontamination, Surface Decontamination	Mercury Hydrocarbon Sludge
2007	Talisman Energy	Malaysia	Mercury Management Plan (MMP) & Incident Investigation	Root Cause Analysis, Gap Analysis, Procedure Overhaul, HazMat Training	Mercury Mercury Compounds
2007	Chevron	Thailand	Mercury Decontamination of PW Surge Drum	Mercury Decontamination, Waste Management, Manual Decontamination, Supplementary Pipe Fitting, Surface Decontamination	Mercury Hydrocarbon-borne Contaminants Hydrocarbon Vapours Hydrocarbon Sludge
2006	Chevron	Thailand	HazMat Supervision & Mercury Monitoring	Mercury Monitoring & Containment, Waste Management	Mercury Hydrocarbon Vapours Hydrocarbon Sludge
2006	Chevron	Thailand	HazMat Supervision & Mercury Monitoring	Mercury Monitoring & Containment, Waste Management, PIG Launcher Removal	Mercury Hydrocarbon Vapours Hydrocarbon Sludge
2006	Chevron	Thailand	Tank Cleaning & Decontamination, Heli-Fuel Tanks	Tank Cleaning, Waste Management	Mercury
2006	THASCO Chemical	Thailand	Mercury Decontamination Services	Mercury Decontamination of Titanium Plates from Chloralkali Plant (21.45 MT)	Mercury
2006	Chevron	Thailand	Spool Modifications & Maintenance Services	Hydrocarbon Sludge Containment, Mercury Decontamination, HazMat Supervision	Mercury Mercury Compounds Hydrocarbon Sludge
2006	Chevron	Thailand	Platform Cleaning Services	Hydrocarbon Sludge Containment, Platform Cleaning & Decontamination, Waste Management	Mercury Hydrocarbon Sludge
2006-2008	Bechtel / Thai Paraxylene	Thailand	TPX Turnaround & Shutdown/Revamp	Confined Space Entry, Air Sampling, Refractory Sampling & Analysis, Asbestos Abatement, Provision of Mobile Field Clinic	Hydrocarbon Vapours Asbestos
2006	Chevron	Thailand	Header Modifications & Maintenance Services	Hydrocarbon Sludge Containment, Mercury Decontamination, HazMat Supervision	Mercury Mercury Compounds Hydrocarbon Sludge
2005	Petronas	Malaysia	Vessel Cleaning & Mercury Decontamination	Hydrocarbon Sludge Containment, Mercury Decontamination, HazMat Supervision	Mercury Mercury Compounds Hydrocarbon Sludge
2005	Chevron	Thailand	HazMat Shutdown Services	Hydrocarbon Sludge Containment, Mercury Decontamination, HazMat Supervision	Mercury Mercury Compounds Hydrocarbon Vapours Hydrocarbon Sludge

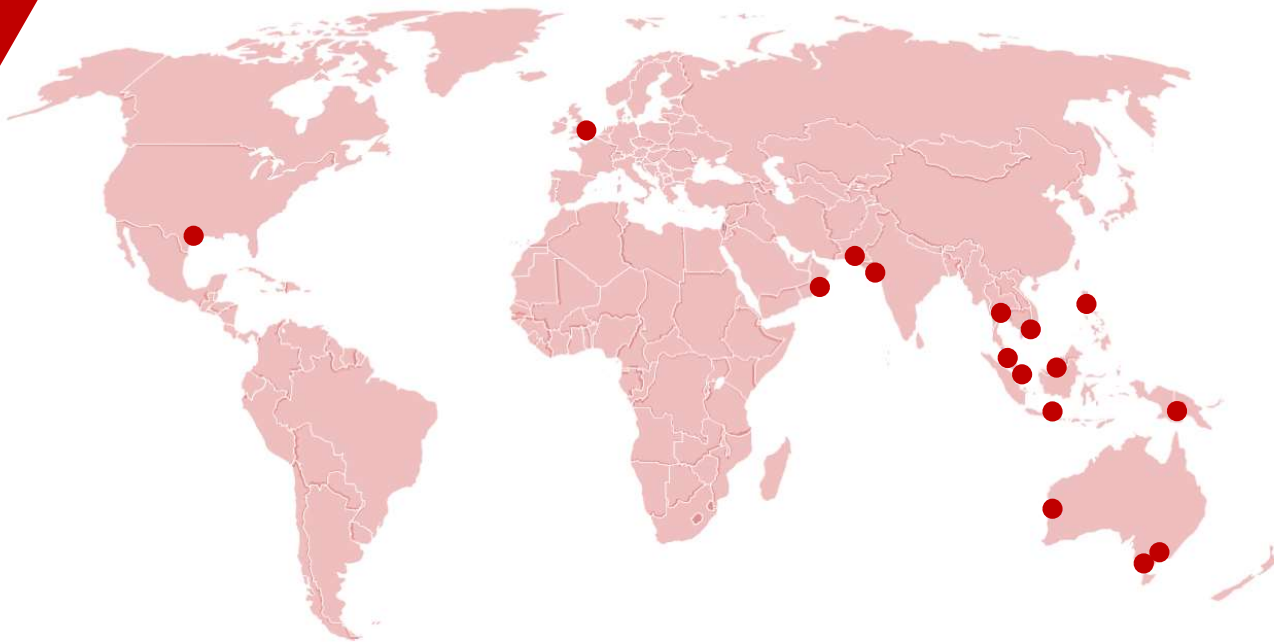
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Period	Company	Country	Project Title	Scope of Work	Contaminants
2005	Chevron	Thailand	Spool Modifications & Maintenance Services	Hydrocarbon Sludge Containment, Mercury Decontamination, HazMat Supervision	Mercury Mercury Compounds Hydrocarbon Sludge
2004 - 2005	Caltex	Philippines	Demolition of Underground Storage Tanks (UST)	Intrinsically Safe demolition system, chain of custody, reimbursement of scrap value	Hydrocarbon Vapours Hydrocarbon Sludge Lead
2005	WMS (ESBEC)	Thailand	Oxidation Pond Rehabilitation	Silt Bed Removal, Coffe Dams, Centrifugal Separation, Waste Disposal	Mercury
2004 - 2019	ROSEN Inspection	Malaysia	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2004	Exxonmobil (Esso)	Thailand	Oxidation Pond Rehabilitation	Silt Bed Removal, Coffe Dams, Centrifugal Separation, Waste Disposal	Mercury Hydrocarbon Deposits
2004	CUEL / Unocal	Thailand	Decommissioning & Decontamination Facility Feasibility Study	Full Design & Feasibility Study	Mercury Mercury Compounds Hydrocarbon Sludge Asbestos Marine Growth
2004	Petronas	Malaysia	Mercury Management Plan (MMP)	Gap Analysis, Procedure Overhaul, Offshore & Onshore Facility Investigation, Product Stream Analysis, Biological Monitoring, Waste Management, MRU Engineering, HazMat Training	Mercury Mercury Compounds
2003 - 2004	Chevron / KBR	Thailand	Production Field Upgrade	HazMat Supervision, HazMat Handling, Instrumentation, PPE, Chemicals, Tank Cleaning, Vessel Modifications, UHPWJ & Cutting of Tanks, Flare Boom Removal, Modular Dismantling, Decontamination of Hg-contaminated Steel Pipe Sections, SS Instrument Tubing, Control Panels, Flare Boom, Heater Treater, Water Treatment Skid, Stock Tanks (2), HazMat Demolition, Waste Disposal	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2003 - 2019	John Crane	Thailand	Rapid Response Mercury Decontamination Services	Mercury Decontamination of Gas Lift Compressor Seals	Mercury
2002 - 2011	ITT Fluid Technology	Thailand	Rapid Response Mercury Decontamination Services	Mercury Decontamination of Valves, Pumps, Gas Lift Compressors *Working with Mercury at Elevated Temperatures, IDLH*	Mercury Mercury Oxide

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Period	Company	Country	Project Title	Scope of Work	Contaminants
2002 - 2011	Chevron	Thailand	FSO/FPSO & Supply Boat Tank Cleaning	Marine Vessel Tank Cleaning (Barite, Cement, Oil, Sarapar, Produced Water, Sludge, Cuttings, OBM, WBM)	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2002 - 2004	Chevron	Thailand	Mercury Management for Facility Upgrades (Platforms and FSO Tanker)	HazMat Training, PPE Assessment, Procedure Writing, Provision of Portable Analytical & Monitoring Systems, Provision of PPE, Biological Monitoring Matrices, HazMat Hot-Work Practices & Safety Protocols, On-site Safety Management, Chemical Decontamination, Vapour Suppression	Mercury Mercury Compounds Hydrocarbon Sludge Hydrogen Sulphide Benzene & VOC Arsenic

Central Asia - Pakistan, India
Middle East - Oman
Far East - Malaysia, Indonesia, Thailand, Vietnam, Brunei, Philippines, Singapore
Australasia - Australia, Papua New Guinea
N. America - USA
Europe - United Kingdom



Summary of Scopes

HazMat Survey (FSO/FPSO)
HazMat Survey/Investigation (Facilities)
HazMat Cleaning/Decon (FSO/FPSO)
HazMat Cleaning/Decon (Platforms)
HazMat Cleaning/Decon (Facilities)
Decommissioning Yard – Design, Setup & Decontamination (Subsea Infrastructure)
Decommissioning Water Filtration Systems (onboard filtration and treatment of water prior to discharge)
Mercury Management Plan (MMP)
Site Remediation
Waste Management
HazMat Training Services

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