

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
2016	Coastal Energy (CEC)	Thailand	Offshore Vessel Cleaning	Semi-automated Tank Cleaning, Chemical Cleaning, Hydrocarbon Decontamination	Mercury Hydrocarbon Sludge VOC LEL
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	PPE Assessment	Assessment of PPE Usage and Practices, Re-assessment for Combination Contaminants, Re-assessment for Working Conditions & Performance Degradation	Mercury H2S CO2
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 Pre-Installation	Mercury Decontamination of Carbon Steel Prior to Hot Works	Mercury Mercury Oxide
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

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
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
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
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	Expro PTI	Thailand	Mercury Decontamination of Skid Units	Mercury Desorption, System Decontamination, Waste Management, Confined Space	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
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
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 - 2016	TD Williamson	Singapore	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2013 - 2016	Tractors Petroleum (TPS)	Malaysia	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2004* - 2016	ROSEN Inspection	Malaysia	Mercury Decontamination of Intelligent PIG Tools	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2014	Exterran	Thailand	Mercury Decontamination of Valves & Ancillaries	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2002 - 2004*	Chevron	Thailand	Hazardous Shutdown Services	HazMat Supervision, HazMat Handling, Instrumentation, PPE, Chemicals, Tank Cleaning, Vessel Modifications	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
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

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
2007 - 2011*	DresserRand	Indonesia	Mercury Decontamination Services	Mercury Decontamination of Gas Lift Compressor	Mercury Mercury Compounds
2008*	J. Ray McDermott	Vietnam	Mercury HazMat Supervision	HazMat Training, HazMat Supervision	Mercury
2006 - 2008*	Bechtel	Thailand	TPX Revamp (Thai Oil Refinery)	Asbestos Abatement Mobile Field Clinic	Hydrocarbon Vapours Asbestos
2007*	MODEC	Vietnam	HazMat Site Assessment	HazMat Site Survey, Procedure Writing, HazMat Training	Mercury Mercury Compounds H2S
2002 - 2011*	ITT Fluid Technology	Thailand	Mercury Decontamination Services	Mercury Decontamination of Valves, Pumps, Gas Lift Compressors	Mercury Mercury Compounds
2007*	Talisman Energy	Malaysia	Mercury Management Plan (MMP)	Gap Analysis, Procedure Overhaul, HazMat Training	Mercury Mercury Compounds
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
2002* - 2016	John Crane	Thailand	Rapid Response Mercury Decontamination Services	Mercury Decontamination of Gas Lift Compressor Seals	Mercury
2004*	CUEL/Unocal	Thailand	Decommissioning & Decontamination Facility Feasibility Study	Full Design & Feasibility Study	Mercury Mercury Compounds Hydrocarbon Sludge Asbestos Marine Growth

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

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
2009*	Origin Energy	Australia	Offshore Facility Decontamination	Decontamination of Mercury, VOC and fouling from offshore gas production facility	Mercury Mercury Compounds Hydrocarbon-borne Contaminants Hydrocarbon Vapours
2008*	PTTEP	Thailand	HazMat Cleaning Services	Chemical Cleaning of Air Fin Cooler, Condensate Heater	Mercury Hydrocarbon Deposits
2011*	ExxonMobil (Esso)	Thailand	Rapid Response Vessel Decontamination Services	Chemical Decontamination of Sour Water Treatment System Surge Drum	BTEX Ammonia Hydrocarbon Sludge
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
2016	Coastal Energy (CEC)	Thailand	MRU Media Removal	Media Bed Assessment, Analysis, Vapour Suppression, Chemical Decontamination, Waste Management, Final Waste Disposal	Mercury Mercury Compounds
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

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
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
2006*	THASCO Chemical	Thailand	Mercury Decontamination Services	Mercury Decontamination of Titanium Plates from Chloralkali Plant (21.45 MT)	Mercury
2007*	GE Oil & Gas	Germany	Mercury Decontamination Services	Mercury Desorption, Waste Management, Mercury Decontamination	Mercury Mercury Compounds Hydrocarbon Sludge
2009*	Cardinal Resources	Thailand	Warehouse Decontamination	Site Assessment, Vapour Suppression, Decontamination	Mercury
2009*	NuCoastal	Thailand	Produced Water Filtration System	Design, Fabrication & Installation of Continuous Process Produced Water Filtration System	Mercury Arsenic TPH
2009*	Salamander Energy	Thailand	Platform Cleaning & Decontamination	Chemical Cleaning & Decontamination of Process & Wellhead Platforms	Hydrocarbon Sludge Mercury
2015 - 2016	Strategic Chemistry	Australia	Procedure Writing	Consultancy & Review of Written Procedures	Mercury
2012*	M-I SWACO	Thailand	Mercury Decontamination of Skid Units	Chemical Decontamination of Wellhead Desander Skid Unit	Mercury Hydrocarbon Deposits
2005*	WMS (ESBEC)	Thailand	Oxidation Pond Rehabilitation	Silt Bed Removal, Cofferdams, Centrifugal Separation, Waste Disposal	Mercury
2004*	ExxonMobil (Esso)	Thailand	Oxidation Pond Rehabilitation	Silt Bed Removal, Cofferdams, Centrifugal Separation, Waste Disposal	Mercury Hydrocarbon Deposits

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.

Project Experience, 2016 - Total Hazardous and Integrated Solutions Ltd (THIS).xlsx

Period	Company	Country	Project Title	Scope of Work	Contaminants
2006*	Thai Paraxylene	Thailand	Asbestos Abatement	Confined Space Entry, Air Sampling, Refractory Sampling & Analysis, Asbestos Abatement	Asbestos

NOTE: Projects marked (*) were Designed, Performed and/or Managed by THIS Personnel under previously part-owned company and have been included for experience reference only.