

NRC NEWSLETTER

A message from Lou O'Brien

As I write this message, 2017 is drawing to a close, and what a year it has been. While our Q1 start was sluggish it now seems like an eternity ago, we are finishing our year with the strongest results in company history.

As I think of this, the adage “a company is only as strong as its people” never rung more true! Our recent results are something we all can take great pride in. All of our regions across the globe have participated, and I for one couldn't be more proud. We owe these results to the determination of you, the heart and soul of NRC!

Over the past two years we have fundamentally changed our business from a loosely integrated company whose divisions operated very independent of each other, to a company today that operates as a fully integrated multi-service organization capable of providing a broad array of services across a wide geography to our very best customers.

At times these changes are made by the inch, almost to the point whereby they are barely noticeable at that time. In our rapid pace world of today, we can be so absorbed in the daily transactions and battles that we don't notice them at all. However, when we get a chance to catch our breath and step back and look, we can see how far we have journeyed.

We have tremendously improved our safety record and that of our employees, strengthened our leadership team in almost all regions, integrated sales and operations working together in every region, added new services and improved others, opened new bases (Mexico, Trinidad, Angola), completed several acquisitions welcoming aboard hundreds of new NRC personnel, and executed successfully on numerous contracts.

So as we go forward in 2018, we will accomplish much more. It is ours to achieve, and achieve we will. As we do so, every once in a while take a look back and see how far we have come! We will continue to grow our brand, and the name NRC will continue to become more recognized as a global leader in response, environmental and industrial services!

Enjoy the read and as ever, feel free to reach out to me at LouOBrien@nrcc.com.



Lou O'Brien
Senior V.P Sales & Marketing

NRC Welcomes New Additions to Our Team



Steven Doig, HNS & Fire Manager- NRC UK

NRC welcomes Steven Doig as the new HNS and Fire Manager for NRC Environmental Services UK.

Steven previously worked for NRC UAE managing various fire projects across Dubai, which included the management of approximately 40 fire fighters over 2 fire stations.



With over 25 years experience in fire and HAZMAT response, Steven started his career in the London Fire Brigade in 1989 and since then has been involved in every role related to HNS.



One of Steven's main roles, is Technical Advisor – HNS for our Global HNS Service contract, with one of the major global operators.

Steven will be dedicating his time to both the Milton Keynes and Oldmeldrum office.

We are delighted to welcome Steven to the UK team.

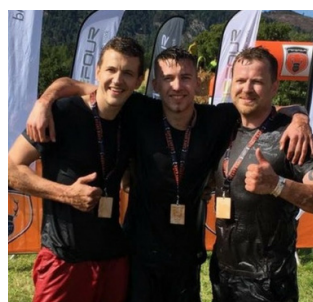
David Munro and Stuart Patience Complete Loch Ness Beast Race

Well done to NRC Project Manager David Munro and Project Engineer Stuart Patience for completing the Loch Ness Beast Race!

David and his family ran the race in aid of Kayleigh's Wee Stars, a local charity based in Oldmeldrum.

Both David and Stuart were extremely happy with their results, completing the race with a big smile on their faces.

To find out more about Kayleigh's Wee Stars please visit their website: <http://www.kayleighsweestars.co.uk/>.



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NRC Attend Spill Expo Conference

September 27th-28th:

NRC attended the annual Spill Expo conference in London.

<http://www.spillresponseexpo.com>

NRC Projects Awarded Two New Contracts Following Ocean Rig Work Scopes

NRC has been awarded two new contracts in Angola following the completion of HVAC cleaning and maintenance work for Ocean Rig in September. The first project was completed in early September which involved conducting a Water Jetting Safety Awareness Training Course for eight Halliburton personnel at their yard located at Kwanda Base in Soyo and instructed by our Senior Pump Engineer, Calvin Oliver.

NRC has been contracted a second work scope whereby NRC are to supply ultra-high pressure jetting and an Engineer in order to assist Halliburton with the cleaning and inspection of multiple heat exchangers. Calvin Oliver is currently our Engineer on site assisting with the operation and maintenance of our jetting equipment.

This work scope was critical path as the Heat Exchangers have been delivered to Kwanda Base from the Saxi Batuque FPSO which is currently shutdown, with a tight deadline set to have the items cleaned, inspected and returned to the FPSO so that it can return to full operations again.

The first batch of Heat Exchangers have now been successfully cleaned and returned to the FPSO and Halliburton have been sent a second batch from another FPSO which extended our work scope by another two weeks.



NRC UK Conduct Oil Spill Emergency Response for ENI

ENI approached NRC Environmental Services UK to provide assistance for the provision of pressure washing services and the removal of contaminated waste from the Knott-End Ferry Jetty following an incident that resulted in the release of crude oil the previous week on behalf of the Wyre Council.

Operations were completed on schedule and Wyre Council were extremely satisfied. Furthermore, NRC were requested by ENI to attend Blackpool Promenade and carry out at site survey of contaminated steps and ramps.



Notable Project Award- Ronkonkoma Wallpaper Site- Islip, NY

NRC was awarded a \$1.66M project from AECOM (Engineer) and NYSDEC to complete the remediation of a former industrial facility in Suffolk County, NY.

The project will include the excavation and off-site disposal of approximately 10,325 tons of soils contaminated with metals (VOCs), backfill and site restoration.

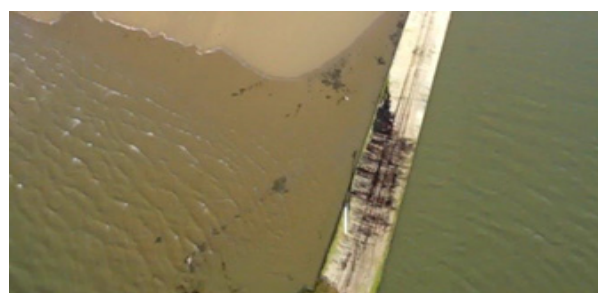
Notable Project Award- Petroleum Coke Remediation- Lake Charles, LA

NRC has continued to expand its relationship with a global manufacturing client.

This was achieved by NRC performing its second major project outside of our traditional service locations in Massena, NY.

After having successfully performed a pond dredging project at the client's facility in Lake Charles, LA in 2016, NRC was recently awarded another remediation project at the same site that will include about 5 acres of clearing and the excavation, transportation and disposal of approximately 37,000 tons of petroleum coke impacted soil and debris.

This 3-month project began in November 2017.



Project Spotlight- NRC Alaska Clear Air Force Station Waste Transportation and Disposal



NRC Alaska faced a logistically challenging project when they were called to action at Clear Air Force Station, in Anderson, Alaska. Strategically located between Fairbanks and Anchorage, this site operates the Ballistic Missile Early Warning System providing long-range warning of a ballistic missile attack over the polar region of the Northern Hemisphere. The radars at Clear also provide tracking of Earth-orbiting satellites and is primarily used for detecting and tracking intercontinental ballistic missiles.

The contract award was renewed mid-2017 for nearly 7,000 tons of PCB impacted soil and PCB painted concrete and steel structural debris from Clear. The work was performed for the United States Army Corps of Engineers under NRC Alaska's Term Contract with the Defense Logistics Agency. The key to this award was NRC Alaska's vast experience in successful bulk material moves for the military at bases within Alaska.



NRC Alaska used excavators, cranes, loaders, and trucks equipped with side-dump trailers to load Gondola style railcars staged on a nearby rail siding. Each railcar was equipped with an engineered liner bag to ensure safe contained transport for the long journey to a disposal facility in the lower 48.

A lader bucket scale was utilised to load the gondola cars to their maximum capacity, while also allowing the tracking of the total amount moved for manifesting purposes. Once gondola cars were loaded to capacity, the car liners were closed as designed and the cars were manifested and marked in accordance with federal DOT regulations.

The gondolas were transported via rail to the marine port at Whittier, Alaska, where they were loaded onto a barge towed to Seattle, Washington. Once in Seattle the cars were placed back onto the rail system and shipped to a permitted facility for offloading and disposal.

With winter fast approaching, an 8-man crew from NRC Alaska offices in Fairbanks, Kenai, and Anchorage worked diligently in completing this project without incident.

To date a total of 75 cars are slated for use including 46 railcars containing contaminated soils and 29 railcars containing PCB contaminated concrete and steel.

The NRC Alaska Team used ingenuity to provide their Government Clients with a viable compliance based and economical solution to their waste management needs.



Client Recognition- SI Group- Rotterdam Junction, NY



In late September, NRC were called on to complete an industrial cleaning project at SI's facility in Rotterdam Junction, NY after unusually warm temperatures in September caused a material to harden in a 6,000-gallon blender. Using pneumatic chipping guns with non-sparking brass bits, NRC personnel performed the labour-intensive activity of chipping the hardened material. An air mover was used to vactor the phenolic resin out of the unit. NRC's crew worked through intense dust and heat wearing PPE, Saranac CPF2 suits, full-face, and chemical boots to perform the work safely.

The project team was led by Marc Phillips (Project Manager) and the following field crew:

- Nate Mitchell
- James Baker
- Shawn Bonner
- Calum Griego
- Jeremy Pease
- Orbin Harrington
- Mike Chakot

The project was successfully completed in 3 days and upon close out, commendation was received from the Andy Bennet, the Senior Production Supervisor for SI Group appraising NRC's staff for a job well done .

"Please thank your team for their solid efforts in the last powder-room blender clean up. NRC's efforts not only allowed us to meet our customer orders; the work was performed safely and without regulatory incident"

NRC Respond to Athens Coastline Oil Spill

Product tanker AGIA ZONI II reported water ingress early on the morning of September 10th at anchorage west of Piraeus, with 2500 tons of fuel (Intermediate Fuel Oil or IFO) on board, and two crew. The Tanker was reported to have sunk and the two crew members were rescued.

The Agia Zoni II subsequently released a large percentage of the fuel into the sea resulting in several beaches being affected on the Athens coastline and on a close outer island, Salamina.

Since then, NRC's Technical Manager- Gareth McCorkill and Operations Support Manager- Mathew Perkins have been supporting our local partners, OSRA/Megatugs, carrying out shoreline impact surveys, training/supervising local workers in shoreline response operations, and liaising with ITOFF/P&I representatives, Greek consultants, and local contractors on site.



NRC Alaska Awarded Household Hazardous Waste Contract- Anchorage, AK

Congratulations to NRC Alaska on winning another 5-year contract from the Municipality of Anchorage to manage the Household Hazardous Waste (HHW) Program. This full-time operation employs 6 NRC personnel that manage two facilities, waste collection, paint processing, transportation and disposal efforts.



NRC participates in Oil Spill Response Thailand 2017 Conference

NRC was proud to present and exhibit at the first ever Oil Spill Response Thailand Conference in September alongside our partners PAE.

The 2 day conference provided NRC with the opportunity to promote the partnership and our oil spill response service capabilities within the region.



NRC US Exhibit At RREC Conference

October 24-25:

NRC exhibited at the 19th Railroad Environmental Conference (RREC) at University of Illinois at Urbana-Champaign.

<http://railtec.illinois.edu/RREC/overview.php>



NRC Georgia participates in OSR Exercise with Georgian Maritime Safety Agency

NRC Georgia participated in a large scale search, rescue and oil spill response exercise for GEO SAR & OSR EX 2017 organised by the Georgian Maritime Transport Agency. This exercise was conducted on the Batumi Black Sea coast, with the purpose of the exercise being:

- Search and rescue operation in the open sea
- Support to the ships
- Containment of spilled oil in the sea
- Shoreline protection



The role of the NRC Georgia Oil Spill Response team was heavily focused on shoreline response and protection. The exercise went very well and the Georgian Maritime Transport Agency thanked NRC for their continuous involvement and support with such events.

NRC Angola moves to Ponticelli's Luanda Facility

NRC has recently moved to a new location in Luanda with the aim of continuing to grow the Angolan business. NRC agreed to a contract with Ponticelli to rent an area of their facility located in Boavista, Luanda and Arran Mackie was in country to oversee the move, which involved 14 x NRC Containers being transferred to the new facility on 4th August. Ponticelli are a French company that were established in 1921 and specialises in fabrication and maintenance projects for the Oil and Gas industry. Ponticelli primarily operates in Europe and Africa including Gabon, Nigeria and the Republic of Congo.

Ponticelli's Luanda facility boasts a large mechanical and piping workshop, maintenance workshop, stores facility, sandblasting & painting shed, a hydrotest area, a 13,600 square metre storage area and a 500 square metre office block. The facility is also strategically based as it is located approximately 15 minutes from the NRC Luanda office and 5 minutes from SONILS Base, which is the main offshore.



Due to the location of the yard and the facilities available on site, this will help NRC to service and maintain the equipment currently in country as well as providing us with an attractive facility to perform works such as pipe cleaning and water jetting training for our clients in Angola.

Vessel Removal Operations in Salt River Bay, St. Croix USVI

NRC and its St. Croix team are working to remove fuel, oil and other hazardous materials from displaced vessels in St. Croix and St. Thomas. Our team is working along side Resolve Marine Group who is overseeing the salvage and movement of vessels to temporary holding areas. The effort is part of a project for the USCG and USVI Department of Planning and Natural Resources to remove displaced vessels from local harbours in the aftermath of Hurricane Maria.

The USVI wants to ensure that no vessels will be stored in the Mangrove Bay/Bio Bay area of the Salt River Bay.

Salt River Bay National Historical Park and Ecological Preserve, St. Croix is a unit of the National Park Service, and is jointly managed by Department of Planning and Natural Resources & National Park Service.

The park preserves upland watersheds, mangrove forests, coral reefs, estuarine, and marine environments that support threatened and endangered species.



NRC UK achieves accreditation as UK Spill Association Contractor

Following a successful visit to Oldmeldrum in early July and an extensive audit, NRC has achieved “Accredited Contractor” status with the UK Spill Association. The UK Spill Contractors Accreditation Scheme is voluntary and exists to maintain consistent standards of Oil Spill clean-up in the UK.

The standards for accreditation (in the scheme) are supported by the United Kingdom Maritime & Coastguard Agency and the United Kingdom Environmental Agencies (the Agencies) and provides a good practice guide to customers and industrial or commercial organisations.

This achievement is set to augment NRC’s presence in the UK Oil Spill Response market and we wish many thanks to those who assisted during the inspection and collating of evidence for the audit.



NRC UAE Hosts Demo for SAFEEN

Earlier this quarter NRC UAE conducted a demonstration of Abu Dhabi Ports equipment to the clients marine department SAFEEN. They came to audit NRC and to be shown the Tier 2 and Tier 3 equipment capabilities.

Country Manager for NRC’s UAE division, Ray Ramsay commented “the familiarization was very successful.

The participants showed great interest in learning how to operate the equipment working safely and showing good team work. Abu Dhabi Ports were extremely pleased with the results.

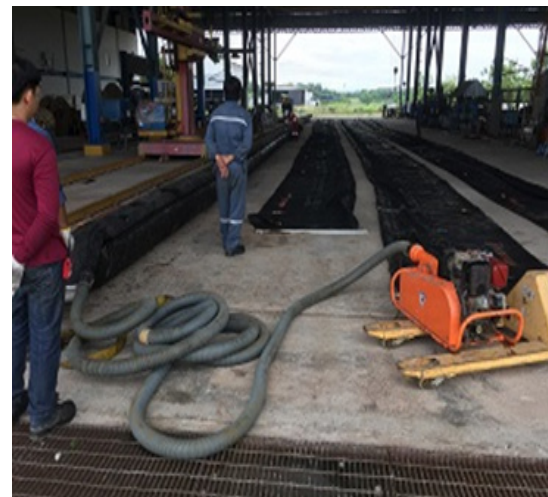


NRC deploys OSR Equipment to Ophir, Thailand

NRC currently has an oil spill response rental package on hire to Ophir, Thailand including a Helix brush skimmer, DOP 160 pump, and a single ship side sweep system.

As part of this contract, NRC will conduct 12 monthly equipment deployment training sessions and Oil Spill 101 Training for Ophir’s vessel crews including training on their own equipment namely; 250m hi-sprint ocean boom and an AFEDO BS 100 dispersant delivery system.

This training is coordinated alongside the equipment’s annual maintenance programme. All of the above has been carried out to the highest degree by our team in the UAE namely Operations Supervisor- Efren Empanado, Response Technician- Esmoso Sherwin, and Operations Manager- Steve Sleep. Commendations to the UAE team who conducted the deployment great efficiency during a very busy time.



The 2017 Hurricane Season was the Worst on Record for the US



Mother Nature and the 2017 hurricane season handed the US and Caribbean region with a full-on assault pounding in Texas, Louisiana, Florida, Puerto Rico, and the US Virgin Islands with Category 4 and 5 wind, rain, and massive destruction. This season's hurricanes - Harvey, Irma, and Maria, were historic as three of the most massive tropical cyclones to hit the US Gulf Coast and Caribbean in modern record keeping.

Starting on August 25, Harvey made landfall in Texas and produced record rainfall with as much as 64 inches (164 cm) of rain pouring into Houston's metropolitan area overflowing rivers, levees, and local reservoirs flooding thousands of homes and businesses and displacing tens of thousands of people. Damages from Harvey in the Houston area alone are estimated to more than \$200 billion.

With massive cleanup efforts in Houston still underway, Mother Nature struck again on August 30th. This time, Hurricane Irma began its destruction in Caribbean's Leeward Islands with direct hits on the U.S. Virgin Islands, Puerto Rico, and then Florida on September 10th. The Virgin Islands were left with massive damage to its islands and infrastructure. Compared to most in the USVI, NRC's St. Croix personnel and base operations were spared any serious damage.

Two weeks later, Mother Nature was blowing her fierce winds again as Hurricane Maria hit Puerto Rico on September 20th as a Category 5/4 hurricane. Maria is now considered the worst natural disaster to hit Puerto Rico and other affected Caribbean islands. The hurricane has created a humanitarian crisis for the US Territory of Puerto Rico destroying most of its infrastructure and electric grid. Sixty percent of the island is still without power seven weeks after the storm.

NRC is thankful that most of our employees and our resources were spared any serious damage throughout the dangerous storms; and we can report that most of our clients were also very fortunate as most refineries, terminals, and pipeline facilities withstood the storms with only minor spills and flooding reported. Yet, the catastrophic and unprecedented damage in Texas, Louisiana, Florida, USVI, and Puerto Rico brought many challenges to our crews and responses. Widespread flooding made it difficult to get response crews to affected areas, and in the USVI and Puerto Rico, communication systems were impacted making satellite phones the only viable means of communication throughout the storm and for sometime after the storm. It would take days before debris was cleared from airports in St. Croix, St. Thomas, and Puerto Rico so that crews and additional supplies could be flown in for additional response assistance.

In the immediate aftermath of Harvey, it was evident that flooding might prevent some NRC and subcontractor personnel in the Houston area from leaving their affected areas to respond to incidents. Therefore, NRC mobilized response strike teams along with additional equipment from other regions into the Houston area to assist. With a temporary rented base in Crosby, TX, NRC personnel teamed up with our affiliate Northstar Recovery Services to assist with recovery efforts providing pump-out and remediation services to many affected clients.

NRC's Hazmat response team was also activated to Crosby, TX after an explosion occurred at a flooded chemical plant. Responders from Specialized Response Solution (SRS) provided safety and standby support during the incident.

In St. Thomas and St. Croix, USVI, NRC response teams are working along side salvage companies Resolve Marine and T & T Salvage. Under a Basic Ordering Agreement (BOA) with the US Coast Guard (USCG), NRC is supporting the recovery of hundreds of partially sunk vessels that were displaced or sank after the hurricane in various marinas in Puerto Rico, St. Thomas, and St. Croix. NRC teams have been providing boom, sorbents, personnel, and skimmers to respond to any possible fuel spills from the salvaged vessel projects.



Puerto Rico after Hurricane Maria



Houston Flooding After Hurricane Harvey

NRC mobilizes Industrial Services Equipment to Trinidad and Tobago



As part of NRC's ongoing commitment to extend our reach internationally, in early September we mobilised specialist equipment to Trinidad & Tobago, which will allow us to perform industrial cleaning services in the region.

The shipment included two high and ultra-high pressure water jetting packages plus a HVAC cleaning and inspection spread which will add to the Oil Spill Response equipment already based in country.

This mobilisation follows an agreement made with our local partner in Trinidad & Tobago, Hull Support Services Ltd, which allowed us access to storing equipment at their yard in La Brea and also gives them exclusive access to our jetting equipment.

Hull Support Services Ltd provides offshore commercial diving, welding and fabrication and ROV inspection services to the Oil and Gas industry and the expectation is that our jetting equipment will be rented by Hull Support Services Ltd within the coming weeks to support their upcoming work scopes.

The equipment arrived in Trinidad on September 20th has now been released for transferring to the yard in La Brea.



NRC assists the European Maritime Safety Agency's OSR Mobilisation to Norway

The Norwegian Government mobilised one of the containment and recovery systems NRC stores and maintains for The European Maritime Safety Agency (EMSA) earlier this quarter. This system was transported to Langesund Norway as part of the annual oil spill exercise.

The equipment was handed over from NRC to the Norwegian Government and NRC personnel were contracted to train the teams in the deployment of the Speed Sweep system.



NRC Turkey and Georgia conducts Cross Border OSR Exercise

NRC Turkey and Georgia performed a mutual cross border exercise in Kars on September 6th. In addition to containing the oil in a timely and effective manner, the teams performed excellently and efficiently crossed the border.

In order to support the wildlife section in this exercise, a professional veterinary team from Kars Kafkas University was invited to participate.



Remembering The Piper Alpha

“Marking the 29th Year Of The Worst Offshore Disaster In History”



2017 has seen offshore workers and their loved ones recall the 29th anniversary of the tragic Piper Alpha disaster that destroyed the platform and killed 167 workers in the North Sea. Piper Alpha was producing around 10% of the UK’s oil when a fire and multiple explosions ripped the platform apart on July 6th 1988. Only 61 onboard workers survived the explosions on the platform.

At this time, the Piper Alpha was the hub for oil and gas from the Tartan and Claymore platforms and hydrocarbons from these platforms continued to feed the fire for hours after the initial explosion.

The aftermath of the Piper Alpha disaster was to have strong implications in the future of oil workers’ safety on the UK Continental Shelf (UKCS). This was headed by Lord Cullen’s report judging that Occidental had used inadequate maintenance and safety procedures.

In this report, the judge made more than 100 recommendations about how safety could be improved in the North Sea, leading to a deep cultural shift within the industry. With this event, safety jumped to the top of the offshore agenda and became a norm rather than an exception.

Earlier this year Lord Cullen praised the launch of the new book “Encompassing the Future: Offshore Oil and Gas Operations” as an “essential knowledge bank” of oil and gas industry knowledge and experience that will help to prevent another Piper Alpha.

Driven by the International Centre for Oil and the Environment (ICOE) and backed by industry, the Crown Estate and the Scottish Government, the book has involved more than 60 authors and taken over 10 years to complete.



NRC Business Unit Profile- NRC Georgia



As part of NRC's newsletter we shall be looking at one of our divisions and outlining their facilities and capabilities.

Location: NRC Georgia operates 3 oil spill response bases in the Republic of Georgia – Gardabani, Tsalka, Borjomi and Batumi. In addition to that, the mobile response crew and a fire fighting team is ready to respond to emergencies in different locations of the country.

Services Provided: Our services include:

- Provision of competent and comprehensive oil spill response and industrial fire fighting services
- Oil spill response and basic fire fighting training of personnel
- Emergency response consultancy services
- Procurement and supply of oil spill response, fire fighting and pipeline repair equipment
- Organization and management of emergency drills and exercises, including cross country exercises
- Management and maintenance of oil spill response and fire fighting equipment and facilities
- Populating and updating Maintenance Management System
- Development of emergency response strategic and tactical plans

Facilities: The Tbilisi office serves as a central office managing and supporting NRC's emergency response teams at various locations in Georgia.

The Gardabani, Tsalka and Borjomi Oil Spill Response bases operated by NRC Georgia are impressive equipment warehouses, yards and office facilities strategically located to ensure fastest and most effective response to emergencies at socially and environmentally sensitive areas.

The Batumi oil spill response centre is located at the Black Sea port with equipment ready for immediate deployment in case of nearshore or offshore emergency in this industrial and tourist centre of Georgia.

Personnel Expertise: The Tbilisi office serves as the central location for managing and supporting NRC's emergency response teams at various locations in Georgia.

NRC Georgia is staffed with several professional expert personnel specialized in a wide range of services, including project management, environmental management, health and safety management, oil spill response and professional industrial fire fighting:

- Country Manager- Marina Vashakidze
- OSR Operations Manager- Vasil Nadirashvili
- Fire Chief and Rescue Operations Manager- Gela Khutsurauli
- HSEQ Manager- Grigol Bendize

