



# GES

GLOBAL ENVIRONMENTAL SOLUTIONS (AUST)

***“Caring for Our Environment with Green Solutions”***

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## 1.0 Company Profile & Sectors of trade

- i. Founders, Our Products were developed since the Mid 1980s, Corporate Entity Est 2001. Major supplier to US Military Forces, US Environmental/ Waste Dept & EPA.
- ii. Our Environmental focus Established in Australia & New Zealand to assist “Our international expansion” for the Release of special Environmental Solutions Product range.
- iii. This new technology eliminates health hazards associated with fugitive dust Issues, and traditional Toxic Binders used over many years in the past.
- iv. Our **Global Corporate Headquarters Based in Newcastle, NSW Australia.**
- v. Through extensive research and development, GES has created optimized solutions that are cost effective, environmentally safe, and, promote ecology in a compliant manner, backed by solid proof of claim & Scientific research.

Construction Sites & Roads

Parks and Recreation

Intl Equestrian/Sports

Landscaping &  
development

Military Air & Ground  
forces

Infrastructure & Marine

Global Mining / Oil & Gas

## 2.0 Product Focus for Industry Targets

**Dustless** Dust Suppression  
Solutions All Industries  
Plus Solar Energy Sites

**Masonry Treatment,**  
Waterproofing Civil  
Construction & Marine

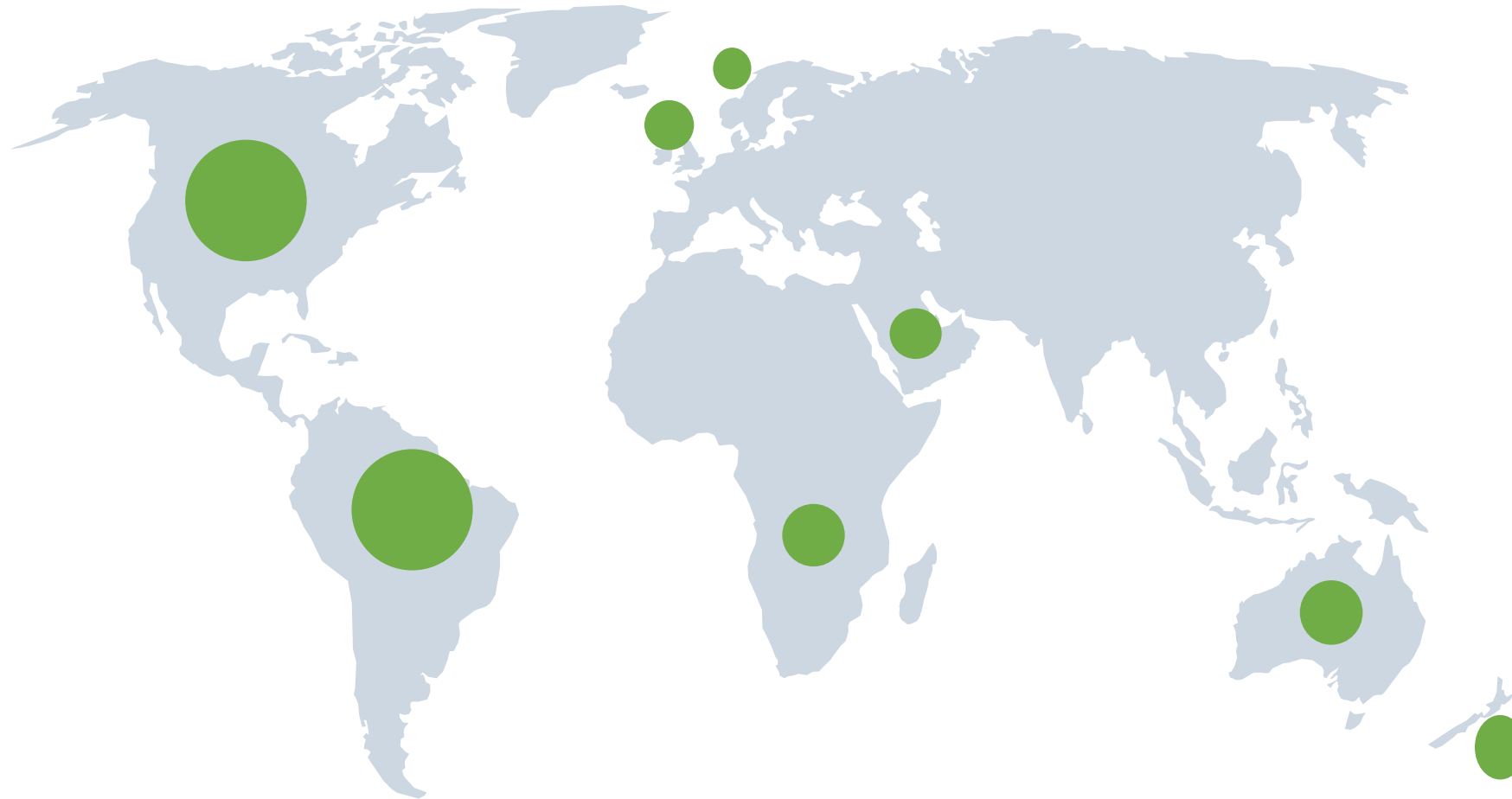
**DGI & DGR, Dustless  
Contaminated Toxic**  
Industrial waste sites and  
Rehabilitation

Mines, Oil & Gas Industrial  
Infrastructure support

Erosion Control & Soil  
Stabilization/ Parklands &  
Wild-Life

Transport Civil Road,  
Industrial Construction /  
Maintenance

## 3.0 Our Global Reach, Where We Deliver Successful Projects



**Americas Region;** Unites States & Canada, North & Central Americas, Mexico

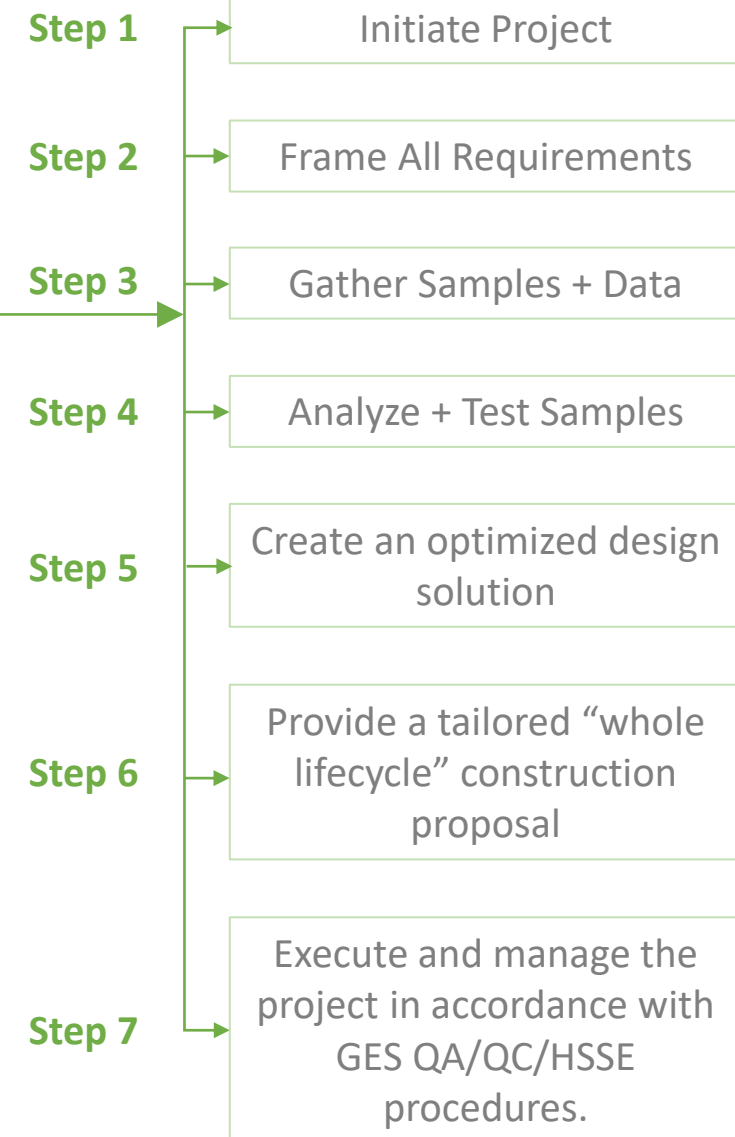
**Australasia Region**  
Australia, New Zealand, PNG, Pacific Islands, Asia

**Middle East Region:**  
Dubai, Abu Dabhi of UAE

**Northern Europe**  
Scandinavian Region, Denmark, Norway, Sweden, Ice Land.  
**United Kingdom,** Ireland, Scotland

## 4.0 Lifecycle Delivered Solutions

- i. We implement a “7 step” project execution approach.
- ii. We optimize both CAPEX and OPEX  
Understand the requirements for client.
- iii. We achieve enhanced quality standards  
using tried and tested Green products and  
procedures.
- iv. We target business sectors that will benefit  
from the cost savings we achieve, that  
traditional methods cannot reach through  
new generation solutions.



## 5.1 **Dustless** (Original)

- i. Environmentally safe, Organically based, non-Hazardous product.
- ii. **A proven** Dust mitigation solutions.
- iii. **Removes** extensive Operational Equipment required to suppress dust with water.
- iv. Dustless is a pre-mixed Ready to Go Product (**No Water Required**).
- v. **Lasts between 6, 9 to 12 months** combined with long term solutions also, through Re-application rate is significantly less, providing optimum cost effective OPEX solutions.



THE CLEAR ALTERNATIVE  
**DustLess**®

*“Thank you very much for the tote of Dustless. The last tote we received in 2011 was utilized to keep the fine dust produced by mining from entering the air stream. This donation will help protect the users of the mine (grade school to retired seniors) from dust inhalation. The Dustless product has performed better than expected and has alleviated the environmental and health concerns raised by other products when used in a closed environment such as our underground mine.” – Clinton Dattel Edgar Experimental Mine Foreman, Colorado School of Mines, Idaho Springs CO.*





## DustLess Super Moto Video

2016, 2017, 2018 Newcastle City NSW Australia, Ran the International SuperMoto Event, 160 Intl & Local Riders, Over 5 days Racing on Road & Dirt Track Surfaces, "Dustless was the King product to Stop Dust for the safety of the riders & Spectators" GES DUSTLESS Thank you we could not have run our event without you, Mr Grahame Boyde (FIA Event Co-Ordinator) Australia





## DirtGlue Industrial Natural Car Park

Sydney Olympic Park NSW, Natural CarPark Project, No Harsh Chemicals (Concrete/Ashalt) Using all Insitu Ag & Soils in place, working with 39%Clay content in the soils. Thanks GTS/GES Aust for delivering to our specifications.



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## 5.2 ArenaKleen (Equine) “An Organic Dust Solution”

- i. Gives Rider, Horse & Trainers an Effective
- ii. “A Clean-Air Environment” Through Organic dust control for cleaner & safer Arena centers.
- iii. Works well on all types of riding arena footing & surfaces such as sand, stone dust, fine gravels.
- iv. ArenaKleen **“Does not need Water”** & never dries up, never evaporates, never hardens, doesn’t wash away in the rain, it’s ideal for outdoor arenas.
- v. ArenaKleen is the **only** horse arena dust control product that actually eliminates the health hazards of Airborne dust & fine particles.



**ArenaKleen®**  
THE RIDERS CHOICE

*“We have been applying ArenaKleen to our outdoor sand dressage ring in Millis, MA for many years... I believe we purchased the first tote in 2010! It does a remarkable job on dust control AND improves the texture and density of the footing making it much better for our horses. We do apply it each year because we simply don’t want to live without its benefits!” - Linda Currie  
Tall Oaks Equestrian Center - Millis, Massachusetts*



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## 5.3 DirtGlue DGR-Polymer

### (Erosion Control & Stock Pile Capping Solution)

- i. Engineered to form a crust that strengthens the Surface soil binding process.
- ii. Used for soil erosion control, embankment stabilization & dust prevention.
- iii. Applied in non-traffic areas, stockpile capping, and, stabilizing slopes and embankments.
- iv. **“Organic based product”**; Non hazardous with no harmful chemicals, with no adverse effect to humans, animals or aquatic life.



**DirtGlue®**  
HOLDING THE EARTH TOGETHER

*“We use Dirtglue polymer to cover stockpiles in our mining operation. It is a permanent part of our budget, and it helps with reducing water content, especially in product we can sell by the ton. Simply showing clients that they don’t pay for water has increased key account loyalty dramatically, taking our business to a new level.” – John Heroux*



## 5.4 DirtGlue Industrial - DGI

(Through our PolyPavement Systems) Hard surface Applications) →

- i. Formulated for the purpose of creating a hard stabilized, high compressive strength surface for paths, parking lots and remote access roads.
- ii. **“An Organic Based Product”** A non hazardous, water soluble product containing no harmful chemicals, with no adverse impact to humans, animals, aquatic or plant life.
- iii. “Works with All Agrigates, All kind” Like Ag, Sand, Multi Mixed into the existing road surface/ and Clay material, to create a durable mix that functions like asphalt and or Concrete hard surface outcomes.
- iv. Custom made, Offers greater UV stability, Water resistant abilities, compared to other polymers in the Intl market.



**DirtGlue®**  
INDUSTRIAL



**DirtGlue®**

**HOLDING THE EARTH TOGETHER**



**DirtGlue®**  
**INDUSTRIAL**

## 5.4 **DirtGlue Industrial (DGI)**

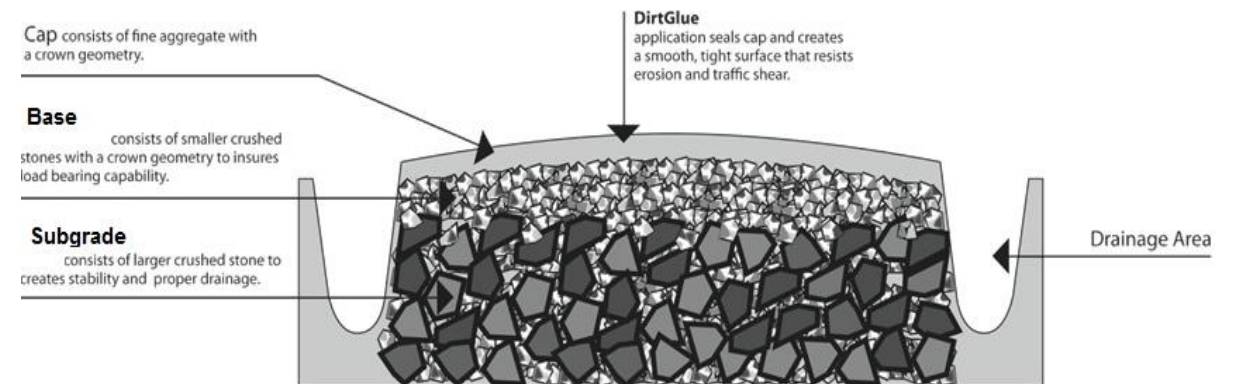
### Product; Tests, Hard surface & Road Performance

The Tests show; Wet Vs **Dry** Vs Water-Proofing – DGI's **Water Resistance Abilities**

Geographic Soil Source	Compressive Strength PSI / (Mpa)		Water Absorption
	<b>Dry</b>	<b>Wet</b>	%
British Virgin Islands	> 3000 / (20.7)	> 3000 / (20.7)	0.9
Jamaica	> 3000 / (20.7)	> 3000 / (20.7)	2.5
Muscat, Oman	> 2800 / (19.3)	> 1300 / (9.0)	8.8
Al-Ansorb, Oman	> 3000 / (20.7)	> 2700 / (18.6)	1.2
Massachusetts, USA	> 3000 / (20.7)	> 3000 / (20.7)	2.2
Libreville, Gabon	> 3000 / (20.7)	> 1900 / (13.1)	2.8

## 5.5 DirtGlue (DGI) Poly-Pavement System

- i. A powerful, Custom made, high-tech, Advanced blended bonding Solution **Organically based GES** polymer pavement system.
- ii. Significantly less expensive to construct and maintain than asphalt or concrete roads & Carparks.
- iii. Produces a permanent, hardened driving surface that equals or exceeds the strength and lifespan of an Asphalt based surface. ***Designed to Works with Recycled & crushed Concrete & Asphalt.***
- iv. Uses less equipment than both Asphalt or Concrete. ***Works with all Origin soils Ag on site,*** Reduces the high cost need to Remove & Transport inferior soil and import new aggregate material, therefore reduces construction time and giving real tracaible cost savings to the project.





# DG Cool,

# “A New Generation of Cool Climate Polymers”



**THE ONLY COLD CLIMATE POLYMER**



From the trusted developers of DirtGlue® comes our new and industry progressing

**PROPRIETARY AQUEOUS POLYMER EMULSION  
FOR COLD CLIMATE CONDITIONS**

You've been asking for it, and we've answered the call!

DG Cool™ polymer emulsion is a bonding agent specifically formulated to bond soil particles together in cold climate conditions. When applied to the surface of the soil, DG Cool™ forms a flexible protective barrier that produces highly effective control capabilities for dust and erosion and acts to fully stabilize the soil / terrain in question. DG Cool™ can be applied in temperatures as cold as 32°F / 0°C. Our proprietary polymer blend is specifically formulated to provide superior bonding when applied to all types of aggregate and soils.

#### USES AND BENEFITS OF DG COOL™

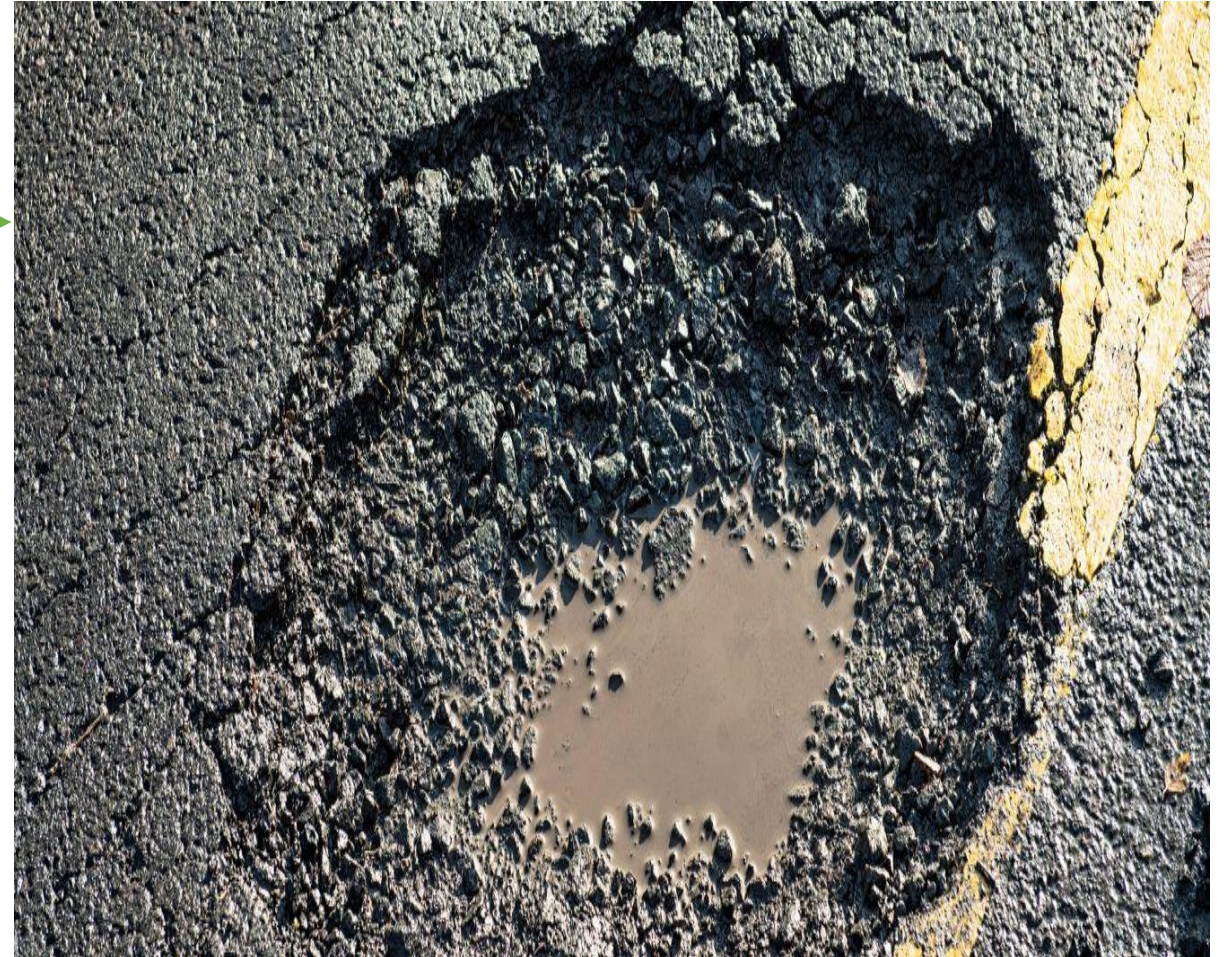
- » Dust control management
- » Erosion control
- » Stockpile capping and sealing
- » Sediment control
- » Replace conventional tackifier in hydroseeding applications
- » Environmentally friendly
- » Can be used in temperatures as cold as 32°F / 0°C





## 5.7 PotHoleGlue (PHG)

- i. A multi-component system formulated to produce a catalytic reaction to create a durable solution for pot hole maintenance and repair.
- ii. Excellent bonding capabilities to fine particles, asphalt and aggregates.
- iii. An optimum alternative solution to conventional repair methods.
- iv. **Organic based**, Environmentally friendly and extremely cost effective PotHole solution.



**PotHoleGlue**<sup>TM</sup>  
A LASTING EXPERIENCE

PotholeGlue<sup>TM</sup>  
A LASTING EXPERIENCE



## 5.8 **MasonProof**

- i. A product that treats and waterproofs All Masonary surfaces & products.
- ii. All Sandstone, Concrete, Bricks, Builders Blocks, Pavers, Civil Marine constructed Concrete & Roads, driveways, pathways,
- iii. Carparks, Retainer walls made of Masonary.
- iv. A treatment that helps increase the life span of your Masonary through from the negative effects of Structual Steel rusting, water & moisture, creating Aglie, yellow & Green Moss, to stained Darkening to a permanent black surface, over time weakening the Masonary structures.
- v. Environmentally friendly, extremely cost effective green solution to improve your project life span.



# MasonProof™

WATERPROOFS MASONRY FROM THE INSIDE OUT



**MasonProof™**  
WATERPROOFS MASONRY FROM THE INSIDE OUT

## 5.9 Research and Development

### *New Products in Development,*

- i. **GES Concrete Fireproofing** additive that currently has a Fire resistance rating of up to 1,250 C.
- ii. Samples are both 25% cement, 25% gravel, 25% sand and 25% stones
- iii. From 20 C to 700 C for Plus 45 minutes
- iv. **Mineral Rock, Animal Waste & Odor Killer**
- v. **“Product Release 2021”**



## 6.0 Global Group Networks and Certified Parties



US Army Corps  
of Engineers®



## 6.0 Certifications

6.0.1 **Oman Aviation Authority** written referenced recommendation: towards GES – Product **Dustless**

“With reference to the above-mentioned products which have been tried by the **Royal Flight specialists in Helicopter operations.**

It said that the (dirt glue) **Dustless** contributed greatly to reduces the amount of dust and volatile airborne dirt particles and reduced the volatility of stones and dust during the descent and take off of our aircraft, which greatly contributed towards improving the Dust & Air conditions of our flight path from the earth movement.”

السلطنة السلطانية



سُورَةُ الْبَلَاغِ السُّلْطَانِي

التاريخ: ٦ من جمادى الأولى 1434 هـ  
الموافق: 18 من مارس 2013 م

المحترم


الفاضل/ محمد الفيلاني  
شركة بحر مجان

السلام عليكم ورحمة الله وبركاته، وبعد:

**الموضوع: منتجات DirtGlue**

بالإشارة إلىالمنتجات المذكورة أعلاه والتي تم تجربتها من قبل المختصين بالطيران السلطاني في عمليات الطائرات العمودية .  
نفيدكم بأن مادة **DirtGlue** ساهمت بشكل كبير في إنخفاض كمية الغبار المتطاير وتقليل تطاير الأحجار والأتربة أثناء نزول و إقلاع الطائرات مما ساهم في تحسين ظروف الطيران في المهبط الترابية .  
ويتم حالياً دراسة الإحتياجات الفعلية للطيران على أن يتم التواصل معكم بعد الإنتهاء من ذلك .  
شاكرين لكم تعاونكم.

وتفضلوا بقبول فائق الإحترام والتقدير،،

  
أحمد بن عبدالله بن حارب الحبسي  
تخصصي أول صحة وسلامة مهنية

## 7.0 Range of Global Projects

Client	Location	Scope	Start Value
Solar One Energy Acciona	Eldorado Valley, Boulder City, Nevada California USA	Treatment of Dust Issues around Solar Energy Panels base structures Using Dustless, 2 sites	\$2-4m On Going
Salton Sea	Dry Lake, California USA	Aged Saline Contaminated Lake remediation – Dust suppression	\$5.5m On Going
Barrick	Cortez Mine, Nevada	Treatment to underground mine road network	\$3m On Going
US EPA Dept	Various Rehabilitation Super Fund sites throughout the US	Dust suppression and Enviro rehabilitation Cleanup methods, Capping & securing of Asbestos Contaminated sites, Waste removal	\$10m On going
US Army Corps	Iraq / Afghanistan	War Zone Dust suppression & Road stabilization/ Reconstruction Cont	\$4m pa On Going
Russian Military	Russia	infrastructure works at military tank base, Tank Road Construction	\$3m
John Holland Group	NSW Australia	Railway station, Contaminated site	\$500,000 On Going

