

Former Gateacre High School

Customer:	Countryside Properties NW PLC	Value:	£800k
	600 Lakeside Drive, Centre Park, Warrington, Cheshire WA1 1RW	Contact:	Chris Reddy Technical Manager

Scope of Work

- Phased bulk earthworks
- Recovery and re-engineering of landfill
- Proof treatment and processing shallow rockhead
- Sensitive dust mitigation & monitoring programme
- Optimal materials management strategy
- 20000m3 controlled export operation
- Advanced Knotweed Mitigation
- Local Residents consultation meetings
- Material recycling and recovery
- Full validation and reporting



Project Description



This topographically challenged former high school site covered 8Ha 5 miles outside Liverpool City Centre. The school, built in the late 1950's necessitated the raising of the site with incinerator ash and mixed wastes to create a level playing field, some 7m higher than the school buildings area.



The project strategy designed to provide a development platform based on Vibro stone column and strip footing foundations, required the full turnover to natural ground arisings (200,000m3), sorting an segregation of unacceptable material, over excavation into the natural shallow rockhead within the roadbox areas to mitigate hard dig during the following drainage operations and removal of surplus volumes including Knotweed impacted soils to facilitate the desired landform.



Movement of such a large volume of material on and off what would very quickly become a very small site was clearly going to be problematic and raise historic and practical concerns with the residents.

Following on from consultation carried out by the developer at planning stage, the UR team held advance drop in sessions at a local club presenting phased drawings and details of the works to be undertaken. The sessions were mutually beneficial with revisions to the traffic management arrangements made in recognition of input from the community. Further engagement with the Gateacre Society ensured continual dialogue between the delivery team and the local community which only assisted with relationships during the site preparation phase.

DustScan Ltd

Dust Consultancy and Dust Monitoring Services

DUSTDISC DEPOSITION REPORT

Client: Urban Regen Ltd Site: Former Gateacre High School

DUSTDISC SETTLEMENT AAC% & EAC% DATA

Our reference:	Date Out:	Date In:	Interval (days)	AAC% Interval	EAC% Interval	AAC% Day	EAC% Day	Dust Impact Risk
05013 / FMP1A / ZURGH5	01-Feb-16	08-Feb-16	7	19.8	0.2	1.5	<0.1	Very Low
05014 / FMP2A / ZURGH5	01-Feb-16	08-Feb-16	7	43.6	1.8	8.2	0.1	Very Low
05015 / FMP3 / ZURGH5	01-Feb-16	08-Feb-16	7	21.1	0.5	3.0	<0.1	Very Low
05016 / FMP4 / ZURGH5	01-Feb-16	08-Feb-16	7	48.0	2.3	6.7	0.3	Very Low

Deposited dust assessment matrix

EAC dust settling	Level 0: <0.5%day	AAC: dust coverage			
		Level 1: 0.5 to <1%day	Level 2: 1.0 to <2%day	Level 3: 2.0 to <5%day	Level 4: 5%day or more
Level 1: 0.5 to <1%day	Very Low	Low	Low	Medium	High
Level 2: 1.0 to <2%day	Low	Medium	Medium	High	Very High
Level 3: 2.0 to <5%day	High	High	High	High	Very High
Level 4: 5%day or more	Very High	Very High	Very High	Very High	Very High

Dust management was a significant challenge with no direct water supply to the site but was coordinated successfully with verification presented through continual weather station monitoring and boundary dust deposition reporting providing surety to the local community and the Environmental Health Team in Liverpool, that the measures deployed were effective.

The project was delivered ahead of programme and on budget.