GARWOOD BOROUGH ATHLETIC FIELD COMPLEX AND THE SITE REMEDIATION PROCESS

Christina Ariemma, RMC, Borough Administrator/Clerk

Daniel Toder, PG, LSRP, Vice President Hatch Mott MacDonald

League of Municipalities - Mayor's Roundtable June 15, 2011













First Step-

Preliminary Assessment / Site Investigation Always Required when Green Acres funding sought

Only 1 AOC found - HISTORIC FILL @ 2-4 ft. Historic Fill is imported material to raise site elevation; may consist of construction debris, dredge spoils, fly ash, demolition debris incinerator residue or non-hazardous solid Waste

Historic Fill investigation for a 5 acre site 4 borings/acre = 20 soil borings.

8 initial borings to investigate Historic Fill

3 of the initial borings found Historic Fill







Added 12 soil borings – did not find historic fill in these additional borings but..... Chlordane (pesticide) was found in B-16 Needed to delineate extent of chlordane Chlordane localized – Excavated Soil Needed to assess impacts to groundwater Two monitoring wells installed and sampled No groundwater impacts found





- Original plan was to Deed Notice the entire site and use 2 ft. of existing cover for cap.
- Plan needed to be modified due to the grading plan for soccer field
- Soil contamination found at 2 locations in southern portion of the site would need to be delineated & excavated during construction.
- Deed notice and cap would be limited to the northern portion of the site.

- Technical consultation with NJDEP
- Natural cap in the north would need to be investigated.
- Contamination found at surface
- Investigation of cap undertaken
- Construction of the park improvements will include replacement of top of soil (1 foot)









Site Remediation Reform in New Jersey What's Different?



www.hatchmott.com

Remedial Actions

Before

Remedies proposed by environmental consultant subject to NJDEP approval

> After

LSRPs can make decisions without approval from NJDEP but....

> Presumptive Remedies for:

- > Residential Single Family Homes
- > Residential Apartment Buildings
- > Schools
- > Child Care Facilities



Case Closure

Before

No Further Action (NFA) letter issued by NJDEP Environmental consultant would propose NFA. NJDEP would either grant or deny NFA. Re-openers possible due to 10X changes in

remediation standard or undiscovered contamination.

> After

Response Action Outcome (RAO) is issued by LSRP RAO may be audited and rescinded by NJDEP within a three year period. Reopeners as above



Variances

Before

Variances allowed with NJDEP Case Manager's approval.

Regulations very prescriptive in terms of investigation and reporting.

> After

LSRPs can use best professional judgment to use variances as long as they are justified with data and are protective of public health and environment.



Observations and Forecast

- The Department is committed to a successful, efficient and effective site remediation program.
- DEP is in a user-friendly compliance mode and is encouraging responsible parties to "opt-in" now, BUT.... LSRPs must be retained by May/2012
- Sites will be remediated by LSRP's in a cost- effective manner and within reasonable timeframes.
- LSRPs may become more conservative in their approach to site remediation.
- The program will be improved over the next several years by incorporating risk-based remediation standards considering the type of contamination, land use and receptors (opinion).







Speakers

Christina Ariemma, RMC
Garwood Borough Administrator/Clerk
Phone: 908-789-0710
<u>c-ariemma@garwood.org</u>

Daniel Toder, PG, LSRP Hatch Mott MacDonald Phone: 732-333-3282 daniel.toder@hatchmott.com

