



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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May 17, 2013

Mr. Ron Carpenter  
Facilities Supervisor  
Bremerton School District  
200 Bruenn Avenue  
Bremerton, WA 98312-3108

**Re: Opinion Pursuant to WAC 173-340- 530 Installation of Fire Lane Safety Sign at  
Crownhill Elementary School, Agreed Order DE7916**

- Name: Crownhill Elementary School
- Address: 1500 Rocky Point, Bremerton, WA
- Facility/Site No.: 99722456

Dear Mr. Carpenter:

On May 13, 2013, you submitted an email (Enclosure A) requesting approval of installation of a safety sign in the fire lane near Crownhill Elementary School.

The Department of Ecology's (Ecology) Toxics Cleanup Program has reviewed the following information regarding your proposed operation and maintenance action:

1. Email from Ron Carpenter, May 13, 2013 (Attachment A).
2. Aspect Consulting. Draft Remedial Investigation Report, Crownhill Elementary School, Prepared for Bremerton School District, December 10, 2013.

The Site is defined by the extent of contamination caused by historical use of the Site as a landfill during the 1930s and 1940s. Chemicals of concern at the Site are lead, arsenic, total petroleum hydrocarbons, and trichloroethene which were released to the soil and ground water.

Based on a review of supporting documentation listed above, pursuant to requirements contained in MTCA and its implementing regulations, Chapter 70.105D RCW and Chapter 173-340 WAC, for characterizing and addressing the release(s) at the Site, Ecology has determined:

- Installation of the safety sign at fire lane, specific location specified in Attachment A will not pose a threat to human health or the environment.



Mr. Ron Carpenter  
May 17, 2013  
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Results of the remedial investigation indicate that soils from the surface to three feet below grade are less than MTCA Method A cleanup levels at the specified location. The following restrictions are placed on this work:

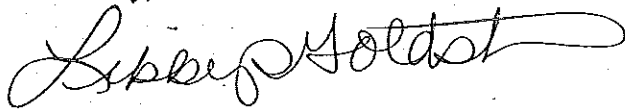
- Care should be taken to ensure that the hole dug for the concrete footing is no deeper than two feet below grade.
- Place soil excavated from the hole on plastic until it is removed from the Site.
- Soil removed from the hole should be placed back into the hole to the maximum extent possible. Excess soil will be removed from the Property and taken to Bremerton School Facilities for disposal as solid waste.

Any unusual conditions observed during the installation of the sign must be reported to Ecology.

Again, Ecology appreciates the work that the Bremerton School District has done in accordance with Agreed Order DE7916.

If you have any questions regarding this opinion, please contact me at (425) 649-7242 or by email at ligo461@ecy.wa.gov..

Sincerely,



Libby S. Goldstein  
Toxics Cleanup Program

Enclosure: Email from Ron Carpenter, May 13, 2013

By certified mail: 7005 1820 0004 5364 5480

cc: Doug Hillman, Aspect Consulting

**Enclosure A**

Email from Ron Carpenter, May 13, 2013

**Goldstein, Libby (ECY)**

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**From:** Ron Carpenter [ron.carpenter@bremertonschools.org]  
**Sent:** Monday, May 13, 2013 3:39 PM  
**To:** Goldstein, Libby (ECY)  
**Cc:** Doug Hillman; Wayne Lindberg  
**Subject:** Sign location at Crownhill  
**Attachments:** Crownhill sign location.pdf

Libby,

Per our discussion last Friday, I have a requirement to install a sign at the Crownhill School. Attached is a PDF showing the sign location requested by the fire department on the fire lane behind the school towards Bertha. It is shown on the 0-3 foot depth sampling diagrams since the sign will only be 2 feet into the ground. All samplings in this area at 0-3 feet is either non-detect or Detected-No exceedance. Please approved this location so the sign can be installed. The excess soil will be moved off site back to facilities.

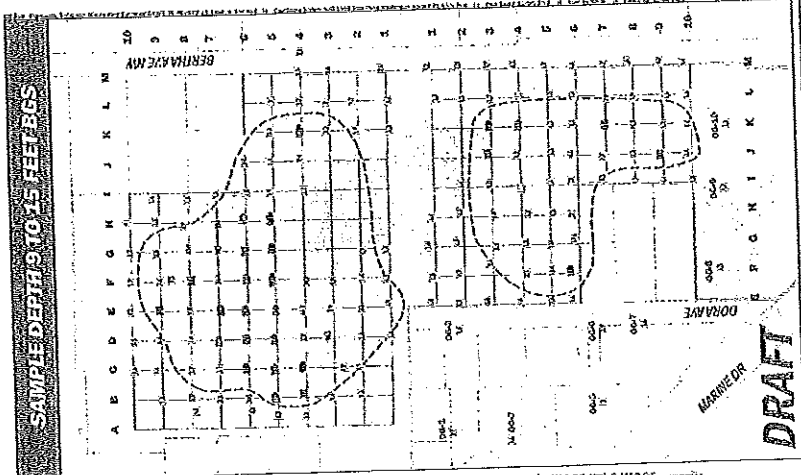
Thanks,

Ron

*Ron Carpenter*  
Facilities Supervisor  
200 Bruenn Av  
Bremerton, WA 98312-3108

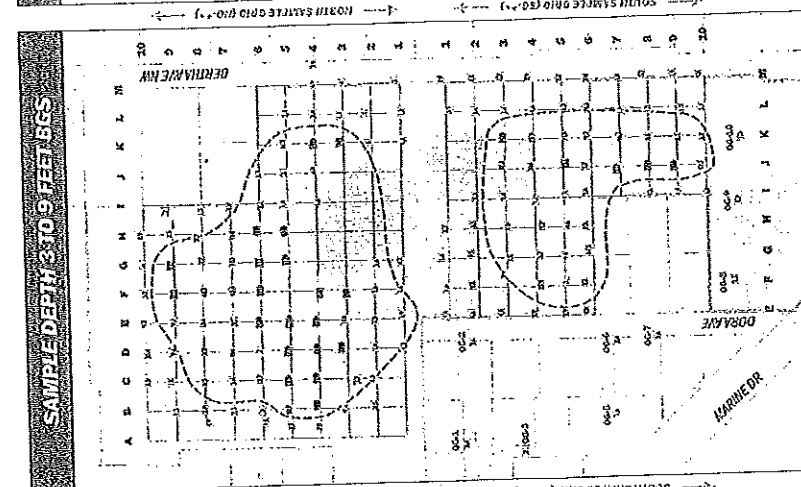
Office: 360 473 0502  
Cell: 360 536 6187  
Fax: 360 473 0520

[ron.carpenter@bremertonschools.org](mailto:ron.carpenter@bremertonschools.org)



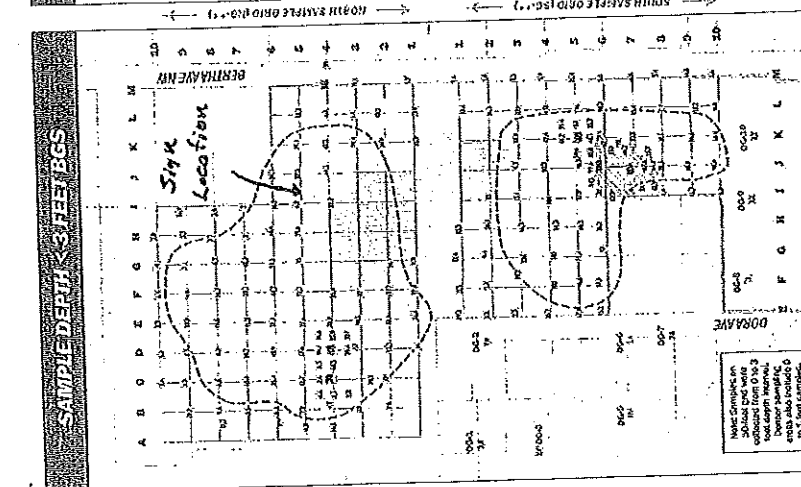
**Lead Distribution in Soil to 15-Foot Depth**  
 Overall Elementary RI  
 DORAVE, WISCONSIN

Map No. **15**



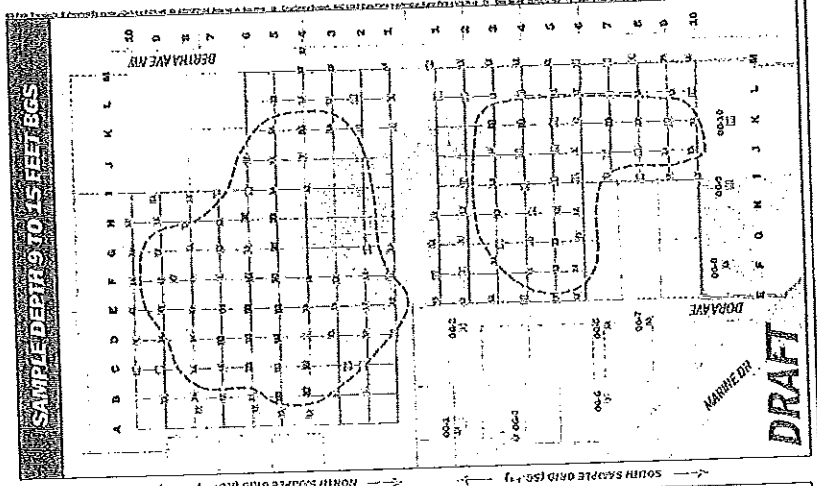
**Legend:**

- Public Utility Box
- Project Area (0 to 1 foot BGS)
- Integrated County of Landfill Facility
- 1927-1930 street layout
- Project Lines
- School Building Footprint
- Perimeter

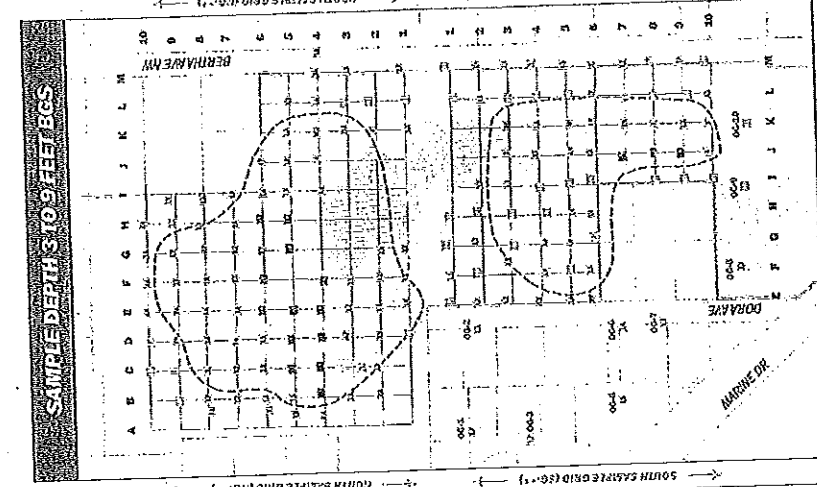


**Legend:**

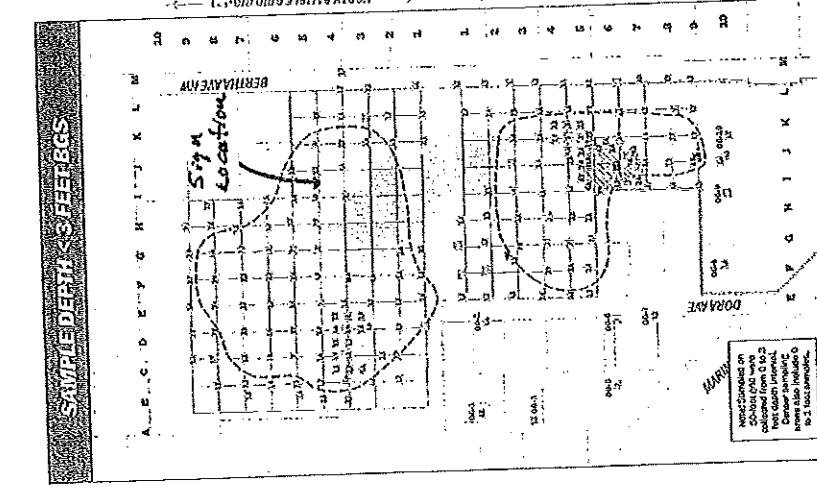
- Sample Grid
- Boundary School District
- Property Boundary
- Dorave United Methodist Church Property Boundary
- Make Composite on 3-foot and 9-foot depth samples
- Non-Contaminated
- Contaminated - No Excavation
- Contaminated - Excavation
- Level 1 to 200 mg/kg
- Level 2 to 500 mg/kg
- Level 3 to 1000 mg/kg



**Arsenic Distribution in Soil to 15-Foot Depth**  
 Crowell Elementary in  
 Bremerton, Washington  
 Project No. 14  
 Date: 08/03/02  
 Scale: 1" = 200'



**Arsenic Distribution in Soil to 9-Foot Depth**  
 Crowell Elementary in  
 Bremerton, Washington  
 Project No. 14  
 Date: 08/03/02  
 Scale: 1" = 200'



**Arsenic Distribution in Soil to 3-Foot Depth**  
 Crowell Elementary in  
 Bremerton, Washington  
 Project No. 14  
 Date: 08/03/02  
 Scale: 1" = 200'