Analytical Report For
Abandoned Mine Reclamation

Sample ID: 7135 008  Date Collected: 06/06/2018 09:50:00 AM  Lab Sample ID: O2018003619  Status: Completed

Name of Sample Collector: Joseph S Kasulaitis
Date Received: 06/07/2018

County: Berks
Municipality: Windsor Twp

MP ID: SOIL2 158475
MP Type: Impoundment
MP Location Description: Soil from Point 2

* Alias ID | Project / Facility
--- | ---
SOIL2 | KERNSVILLE

Sample Medium: Soil
Sample Medium Type: Soil

Location: NOT INDICATED
Reason: Routine Sampling
Project: KERNSVILLE Kernsville Dam
Suite: SV-SW
Matrix: Soil

Stream Condition:

Sample Comment: Schuylkill River
Endrin and/or DDT breakdown exceeds limits. This sample contains the following Tentatively Identified Compounds: methyl tetradecanoate; a few alkanes in the range of C17 to C24; sulfur, S6 and S8; hexathiepane; hexadecanoic and hexadecenoic acids and their methyl esters; diphenyl sulfone; hexadecanal; octadecanal; octacosanol; cholesterol; sitosterol; stigmastanol; stigmastenone; friedelanone. This sample also contains some PAHs below the reporting limits.

<table>
<thead>
<tr>
<th>Test Codes / CAS # - Description</th>
<th>Reported Results</th>
<th>Date And Time Analyzed</th>
<th>Approved by</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>95943 1,2,4,5-Tetrachlorobenzene</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
</tr>
<tr>
<td>120821 1,2,4-Trichlorobenzene</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>95501 1,2-Dichlorobenzene</td>
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<td>EPA 8270D</td>
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<td>EPA 8270D</td>
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<td>136154 1,4-Naphthoquinone</td>
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<td>90131 1-Chloronaphthalene</td>
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<td>90120 1-Methylnaphthalene</td>
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<td>108-60-1 2,2’-oxybis(1-Chloropropane)</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>58902 2,3,4,6-Tetrachlorophenol</td>
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<td>95954 2,4,5-Trichlorophenol</td>
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<td>88062 2,4,6-Trichlorophenol</td>
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<td>120832 2,4-Dichlorophenol</td>
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<td>105679 2,4-Dimethylphenol</td>
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<tr>
<td>Low-level LFB recovery low. Results and/or reporting limit may be biased low.</td>
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<tr>
<td>51285 2,4-Dinitrophenol</td>
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<td>121142 2,4-Dinitrotoluene</td>
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<tr>
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<td>91576 2-Methylnaphthalene</td>
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<tr>
<td>95487 2-Methylphenol</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>88744 2-Nitroaniline</td>
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<td>CARWALTER</td>
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<td>88755 2-Nitrophenol</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>109068 2-Picoline (2-Methylpyridine)</td>
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<tr>
<td>1319773 3&amp;4-Methylphenol</td>
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<td>91941 3,3’-Dichlorobenzidine</td>
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<td>99092 3-Nitroaniline</td>
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<td>EPA 8270D</td>
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<td>534521 4,6-Dinitro-2-methylphenol</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
</tr>
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<tr>
<td>92671 4-Aminobiphenyl</td>
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<td>06/28/2018 02:00 AM</td>
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<td>EPA 8270D</td>
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<tr>
<td>101553 4-Bromophenyl-phenyl ether</td>
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<td>06/28/2018 02:00 AM</td>
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<td>EPA 8270D</td>
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<td>59507 4-Chloro-3-methylphenol</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<td>106478 4-Chloroaniline</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>7005723 4-Chlorophenyl-phenyl ether</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>100016 4-Nitroaniline</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>100027 4-Nitrophenol</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>99558 5-Nitro-o-toluidine</td>
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<td>06/28/2018 02:00 AM</td>
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<tr>
<td>98862 Acetophenone</td>
<td>4.3 mg/kg (U)</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>62533 Aniline</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>120127 Anthracene</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>140578 Aramite</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>98555 a-Terpineol</td>
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<td>06/28/2018 02:00 AM</td>
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<td>EPA 8270D</td>
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<tr>
<td>56553 Benz(a)anthracene</td>
<td>1.1 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>50328 Benzo(a)pyrene</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>205992 Benzo(b)fluoranthene</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>** Comment ** Includes benzo[j]fluoranthene</td>
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<tr>
<td>191242 Benzo(g,h,i)perylenne</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>207089 Benzo(k)fluoranthene</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>100516 Benzyl alcohol</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>111191 bis(2-Chloroethoxy)methane</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>111444 bis(2-Chloroethyl)ether</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>117817 bis(2-Ethylhexyl)phthalate</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>85687 Butylbenzylphthalate</td>
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<td>06/28/2018 02:00 AM</td>
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<td>EPA 8270D</td>
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<td>510156 Chlorobenzilate</td>
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<td>06/28/2018 02:00 AM</td>
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<td>EPA 8270D</td>
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<td>2303164 Diallyte (Cis &amp; Trans)</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>53703 Dibenzo(a,h)anthracene</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<td>132649 Dibenzoferan</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>84662 Diethylphthalate</td>
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<td>EPA 8270D</td>
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<td>60515 Dimethoate</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>84742 Di-n-butylphthalate</td>
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<td>06/28/2018 02:00 AM</td>
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<td>117840 Di-n-octylphthalate</td>
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<td>88857 Dinoseb</td>
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<td>EPA 8270D</td>
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<td>122394 Diphenylamine&amp;n-Nitrosodiapheny</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<td>298044 Disulfoton</td>
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<td>62500 Ethyl methanesulfonate</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>77474 Hexachlorocyclopentadiene</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>Continuing calibration recoveries low. Results and/or reporting limits may be biased low.</td>
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<tr>
<td>67721 Hexachloroethane</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>188817 Hexachloropropene</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>Continuing calibration recoveries low. Results and/or reporting limits may be biased low.</td>
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<td></td>
<td></td>
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<tr>
<td>193395 Indeno-1,2,3-cd-pyrene</td>
<td>1.1 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>465736 Isodrin</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>78591 Isophorone</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>120581 Isosafrole</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>66273 Methyl Methanesulfonate</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>298000 Methyl Parathion</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>91203 Naphthalene</td>
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<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>98953 Nitrobenzene</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>924163 N-Nitrosodibutylamine</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<tr>
<td>55185 N-Nitrosodiethylamine</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<td>62759 N-Nitrosodimethylamine</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<tr>
<td>621647 N-Nitrosodipropylamine</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>10595956 N-Nitrosomethylamine</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>59892 N-Nitrosomorpholine</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<td>100754 N-nitrosopiperidine</td>
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<td>06/28/2018 02:00 AM</td>
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<td>EPA 8270D</td>
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<td>930552 N-Nitrosopyrrolidine</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<tr>
<td>126681 O,O,O-Triethylphosphorothioate</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
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<tr>
<td>95534 o-Toluidine</td>
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<td>06/28/2018 02:00 AM</td>
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</tr>
</tbody>
</table>

Continuing calibration recoveries low. Results and/or reporting limits may be biased low.
<table>
<thead>
<tr>
<th>Test Codes / CAS # - Description</th>
<th>Reported Results</th>
<th>Date And Time Analyzed</th>
<th>Approved by</th>
<th>Test Method</th>
</tr>
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<tbody>
<tr>
<td>76017  Pentachlorethane</td>
<td>2.2 mg/kg (U)</td>
<td>06/28/2018 02:00 AM</td>
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<tr>
<td>608935 Pentachlorobenzene</td>
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<td>06/28/2018 02:00 AM</td>
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<td>82688 Pentachloronitrobenzene</td>
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<td>87865 Pentachlorophenol</td>
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<td>85018 Phenanthrene</td>
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<tr>
<td>108952 Phenol</td>
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<td>06/28/2018 02:00 AM</td>
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<tr>
<td>298022 Phorate</td>
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<td>23950585 Pronamide</td>
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<td>06/28/2018 02:00 AM</td>
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<td>129000 Pyrene</td>
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<td>06/28/2018 02:00 AM</td>
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<td>110861 Pyridine</td>
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<td>06/28/2018 02:00 AM</td>
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<td>94597 Safrole</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
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<tr>
<td>3689245 Sulfotep</td>
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<td>06/28/2018 02:00 AM</td>
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<td>297972 Thionazine</td>
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<td>06/28/2018 02:00 AM</td>
<td>CARWALTER</td>
<td>EPA 8270D</td>
</tr>
</tbody>
</table>

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

Taru Upadhyay, Technical Director, Bureau of Laboratories

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**ORGANICS LABORATORY QUALIFIERS**

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 40% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.