

APPENDIX E

UNIVERSAL TREATMENT STANDARDS FRIT TEST RESULTS

This appendix provides the full screen analysis for the U.S. Environmental Protection Agency Universal Treatment Standards constituents. The relevancy of the leach test results presented here are discussed in more detail in Chapter 3 of this EIS. Note that the sample that provided these results originated from a commercial scale British Gas Lurgi gasifier that is operating on a 100 percent coal feed.

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>Concn,</u>	<u>Concn, mg/l</u>	<u>Detection</u>
		<u>mg/kg or as</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u>
		<u>mg/l TCLP</u>			<u>or mg/l</u>
<u>Acenaphthylene</u>	<u>208-96-8</u>	<u>3.4</u>	<u>ND</u>		<u>0.00755</u>
<u>Acenaphthene</u>	<u>83-32-9</u>	<u>3.4</u>	<u>ND</u>		<u>0.00552</u>
<u>Acetone</u>	<u>67-64-1</u>	<u>160</u>	<u>ND</u>		<u>0.00482</u>
<u>Acetonitrile</u>	<u>75-05-8</u>	<u>38</u>	<u>ND</u>		<u>0.00289</u>
<u>Acetophenone</u>	<u>96-86-2</u>	<u>9.7</u>	<u>ND</u>		<u>0.00356</u>
<u>2-Acetylaminofluorene</u>	<u>53-96-3</u>	<u>140</u>	<u>ND</u>		<u>0.00708</u>
<u>Acrolein</u>	<u>107-02-8</u>	<u>NA</u>	<u>ND</u>		<u>0.00491</u>
<u>Acrylamide</u>	<u>79-06-1</u>	<u>23</u>			
<u>Acrylonitrile</u>	<u>107-13-1</u>	<u>84</u>	<u>ND</u>		<u>0.0015</u>
<u>Aldicarb sulfone</u>	<u>1646-88-4</u>	<u>0.28</u>			
<u>Aldrin</u>	<u>309-00-2</u>	<u>0.066</u>			
<u>4-Aminobiphenyl</u>	<u>92-67-1</u>	<u>NA</u>			
<u>Aniline</u>	<u>62-53-3</u>	<u>14</u>	<u>ND</u>		<u>0.0180</u>
<u>Anthracene</u>	<u>120-12-7</u>	<u>3.4</u>	<u>ND</u>		<u>0.00902</u>
<u>Aramite</u>	<u>140-57-8</u>	<u>NA</u>			
<u>alpha-BHC</u>	<u>319-84-6</u>	<u>0.066</u>			
<u>beta-BHC</u>	<u>319-85-7</u>	<u>0.066</u>			
<u>delta-BHC</u>	<u>319-86-8</u>	<u>0.066</u>			
<u>gamma-BHC</u>	<u>58-89-9</u>	<u>0.066</u>			
<u>Barban</u>	<u>101-27-9</u>	<u>1.4</u>			
<u>Bendiocarb</u>	<u>22781-23-3</u>	<u>1.4</u>			
<u>Bendiocarb phenol</u>	<u>22961-82-6</u>	<u>1.4</u>			
<u>Benomyl</u>	<u>17804-35-2</u>	<u>1.4</u>			
<u>Benzene</u>	<u>71-43-2</u>	<u>10</u>	<u>ND</u>		<u>0.000625</u>
<u>Benz(a)anthracene</u>	<u>56-55-3</u>	<u>3.4</u>	<u>ND</u>		<u>0.00572</u>
<u>Benzal chloride</u>	<u>98-87-3</u>	<u>6.0</u>			
<u>Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)</u>	<u>205-99-2</u>	<u>6.8</u>	<u>ND</u>		<u>0.00829</u>
<u>Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)</u>	<u>207-08-9</u>	<u>6.8</u>	<u>ND</u>		<u>0.00856</u>
<u>Benzo(g,h,i)perylene</u>	<u>191-24-2</u>	<u>1.8</u>			<u>0.00599</u>
<u>Benzo(a)pyrene</u>	<u>50-32-8</u>	<u>3.4</u>	<u>ND</u>		<u>0.00862</u>
<u>Bromodichloromethane</u>	<u>75-27-4</u>	<u>15</u>	<u>ND</u>		<u>.000377</u>
<u>Bromomethane/Methyl bromide</u>	<u>74-83-9</u>	<u>15</u>	<u>ND</u>		<u>0.000623</u>
<u>4-Bromophenyl phenyl ether</u>	<u>101-55-3</u>	<u>15</u>	<u>ND</u>		<u>0.00734</u>
<u>n-Butyl alcohol</u>	<u>71-36-3</u>	<u>2.6</u>			
<u>Butylate</u>	<u>2008-41-5</u>	<u>1.4</u>			
<u>Butyl benzyl phthalate</u>	<u>85-68-7</u>	<u>28</u>	<u>ND</u>		<u>0.0111</u>
<u>2-sec-Butyl-4,6-dinitrophenol/Dinoseb</u>	<u>88-85-7</u>	<u>2.5</u>			
<u>Carbaryl</u>	<u>63-25-2</u>	<u>0.14</u>			

Universal Treatment Standards
Frit Test Results

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>Concn,</u>	<u>Concn, mg/l</u>	<u>Detection</u>
		<u>mg/kg or as</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u>
		<u>mg/l TCLP</u>			<u>or mg/l</u>
<u>Carbenzadim</u>	<u>10605-21-7</u>	<u>1.4</u>			
<u>Carbofuran</u>	<u>1563-66-2</u>	<u>0.14</u>			
<u>Carbofuran phenol</u>	<u>1563-38-8</u>	<u>1.4</u>			
<u>Carbon disulfide</u>	<u>75-15-0</u>	<u>4.8 mg/l</u>	<u>ND</u>	<u>< 0.00003</u>	<u>0.00065</u>
		<u>TCLP</u>		<u>(estimated)</u>	
<u>Carbon tetrachloride</u>	<u>56-23-5</u>	<u>6.0</u>	<u>ND</u>		<u>0.000426</u>
<u>Carbosulfan</u>	<u>55285-14-8</u>	<u>1.4</u>			
<u>Chlordane (alpha and gamma isomers)</u>	<u>57-74-9</u>	<u>0.26</u>			
<u>p-Chloroaniline</u>	<u>106-47-8</u>	<u>16</u>	<u>ND</u>		<u>0.0110</u>
<u>Chlorobenzene</u>	<u>108-90-7</u>	<u>6.0</u>	<u>ND</u>		<u>0.000455</u>
<u>Chlorobenzilate</u>	<u>510-15-6</u>	<u>NA</u>	<u>ND</u>		<u>0.00571</u>
<u>2-Chloro-1,3-butadiene</u>	<u>126-99-8</u>	<u>0.28</u>			
<u>Chlorodibromomethane</u>	<u>124-48-1</u>	<u>15</u>			
<u>Chloroethane</u>	<u>75-00-3</u>	<u>6.0</u>	<u>ND</u>		<u>0.000695</u>
<u>bis(2-Chloroethoxy)methane</u>	<u>111-91-1</u>	<u>7.2</u>	<u>ND</u>		<u>0.00543</u>
<u>bis(2-Chloroethyl)ether</u>	<u>111-44-4</u>	<u>6.0</u>	<u>ND</u>		<u>0.00500</u>
<u>Chloroform</u>	<u>67-66-3</u>	<u>6.0</u>	<u>ND</u>		<u>0.000487</u>
<u>bis(2-Chloroisopropyl)ether</u>	<u>39638-32-9</u>	<u>7.2</u>			
<u>p-Chloro-m-cresol</u>	<u>59-50-7</u>	<u>14</u>	<u>ND</u>		<u>0.00758</u>
<u>2-Chloroethyl vinyl ether</u>	<u>110-75-8</u>	<u>NA</u>			
<u>Chloromethane/Methyl chloride</u>	<u>74-87-3</u>	<u>30</u>	<u>ND</u>		<u>0.00127</u>
<u>2-Chloronaphthalene</u>	<u>91-58-7</u>	<u>5.6</u>	<u>ND</u>		<u>0.00787</u>
<u>2-Chlorophenol</u>	<u>95-57-8</u>	<u>5.7</u>	<u>ND</u>		<u>0.00515</u>
<u>3-Chloropropylene</u>	<u>107-05-1</u>	<u>30</u>	<u>ND</u>		<u>0.00114</u>
<u>Chrysene</u>	<u>218-01-9</u>	<u>3.4</u>	<u>ND</u>		<u>0.00638</u>
<u>o-Cresol</u>	<u>95-48-7</u>	<u>5.6</u>			
<u>m-Cresol (difficult to distinguish from p-cresol)</u>	<u>108-39-4</u>	<u>5.6</u>			
<u>p-Cresol (difficult to distinguish from m-cresol)</u>	<u>106-44-5</u>	<u>5.6</u>			
<u>m-Cumenyl methylcarbamate</u>	<u>64-00-6</u>	<u>1.4</u>			
<u>Cyclohexanone</u>	<u>108-94-1</u>	<u>0.75 mg/l</u>			
		<u>TCLP</u>			
<u>o,p'-DDD</u>	<u>53-19-0</u>	<u>0.087</u>			
<u>p,p'-DDD</u>	<u>72-54-8</u>	<u>0.087</u>			
<u>o,p'-DDE</u>	<u>3424-82-6</u>	<u>0.087</u>			
<u>p,p'-DDE</u>	<u>72-55-9</u>	<u>0.087</u>			
<u>o,p'-DDT</u>	<u>789-02-6</u>	<u>0.087</u>			
<u>p,p'-DDT</u>	<u>50-29-3</u>	<u>0.087</u>			
<u>Dibenz(a,h)anthracene</u>	<u>53-70-3</u>	<u>8.2</u>	<u>ND</u>		<u>0.00609</u>
<u>Dibenz(a,e)pyrene</u>	<u>192-65-4</u>	<u>NA</u>			
<u>1,2-Dibromo-3-chloropropane</u>	<u>96-12-8</u>	<u>15</u>	<u>ND</u>		<u>0.000987</u>

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>mg/kg or as</u>	<u>Concn,</u>	<u>Concn, mg/l</u>
		<u>mg/l</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u> <u>or mg/l</u>
<u>1,2-Dibromoethane/Ethylene dibromide</u>	<u>106-93-4</u>	<u>15</u>	<u>ND</u>		<u>0.00646</u>
<u>Dibromomethane</u>	<u>74-95-3</u>	<u>15</u>	<u>ND</u>		<u>0.000645</u>
<u>m-Dichlorobenzene</u>	<u>541-73-1</u>	<u>6.0</u>	<u>ND</u>		<u>0.00556</u>
<u>o-Dichlorobenzene</u>	<u>95-50-1</u>	<u>6.0</u>	<u>ND</u>		<u>0.00530</u>
<u>p-Dichlorobenzene</u>	<u>106-46-7</u>	<u>6.0</u>	<u>ND</u>		<u>0.00530</u>
<u>Dichlorodifluoromethane</u>	<u>75-71-8</u>	<u>7.2</u>	<u>ND</u>		<u>0.000605</u>
<u>1,1-Dichloroethane</u>	<u>75-34-3</u>	<u>6.0</u>	<u>ND</u>		<u>0.000588</u>
<u>1,2-Dichloroethane</u>	<u>107-06-2</u>	<u>6.0</u>	<u>ND</u>		<u>0.000537</u>
<u>1,1-Dichloroethylene</u>	<u>75-35-4</u>	<u>6.0</u>	<u>ND</u>		<u>0.000997</u>
<u>trans-1,2-Dichloroethylene</u>	<u>156-60-5</u>	<u>30</u>	<u>ND</u>		<u>0.001</u>
<u>2,4-Dichlorophenol</u>	<u>120-83-2</u>	<u>14</u>	<u>ND</u>		<u>0.00294</u>
<u>2,6-Dichlorophenol</u>	<u>87-65-0</u>	<u>14</u>	<u>ND</u>		<u>0.00761</u>
<u>2,4-Dichlorophenoxyacetic acid/2,4-D</u>	<u>94-75-7</u>	<u>10</u>			
<u>1,2-Dichloropropane</u>	<u>78-87-5</u>	<u>18</u>	<u>ND</u>		<u>0.000645</u>
<u>cis-1,3-Dichloropropylene</u>	<u>10061-01-5</u>	<u>18</u>	<u>ND</u>		<u>0.000407</u>
<u>trans-1,3-Dichloropropylene</u>	<u>10061-02-6</u>	<u>18</u>	<u>ND</u>		<u>0.000659</u>
<u>Dieldrin</u>	<u>60-57-1</u>	<u>0.13</u>			
<u>Diethylene glycol, dicarbamate</u>	<u>5952-26-1</u>	<u>1.4</u>			
<u>Diethyl phthalate</u>	<u>84-66-2</u>	<u>28</u>	<u>0.0123</u>		<u>0.00881</u>
<u>p-Dimethylaminoazobenzene</u>	<u>60-11-7</u>	<u>NA</u>			<u>0.00809</u>
<u>2,4-Dimethyl phenol</u>	<u>105-67-9</u>	<u>14</u>	<u>ND</u>		<u>0.0404</u>
<u>Dimethyl phthalate</u>	<u>131-11-3</u>	<u>28</u>	<u>ND</u>		<u>0.00576</u>
<u>Dimetilan</u>	<u>644-64-4</u>	<u>1.4</u>			
<u>Di-n-butyl phthalate</u>	<u>84-74-2</u>	<u>28</u>			
<u>1,4-Dinitrobenzene</u>	<u>100-25-4</u>	<u>2.3</u>			
<u>4,6-Dinitro-o-cresol</u>	<u>534-52-1</u>	<u>160</u>			
<u>2,4-Dinitrophenol</u>	<u>51-28-5</u>	<u>160</u>	<u>ND</u>		<u>0.231</u>
<u>2,4-Dinitrotoluene</u>	<u>121-14-2</u>	<u>140</u>	<u>ND</u>		<u>0.00530</u>
<u>2,6-Dinitrotoluene</u>	<u>606-20-2</u>	<u>28</u>	<u>ND</u>		<u>0.00827</u>
<u>Di-n-octyl phthalate</u>	<u>117-84-0</u>	<u>28</u>			
<u>Di-n-propylnitrosamine</u>	<u>621-64-7</u>	<u>14</u>			
<u>1,4-Dioxane</u>	<u>123-91-1</u>	<u>170</u>			
<u>Diphenylamine (difficult to distinguish from diphenylnitrosamine)</u>	<u>122-39-4</u>	<u>13</u>			
<u>Diphenylnitrosamine (difficult to distinguish from diphenylamine)</u>	<u>86-30-6</u>	<u>13</u>	<u>ND</u>		<u>0.0235</u>
<u>1,2-Diphenylhydrazine</u>	<u>122-66-7</u>	<u>NA</u>			
<u>Disulfoton</u>	<u>298-04-4</u>	<u>6.2</u>			
<u>Dithiocarbamates (total)</u>	<u>137-30-4</u>	<u>28</u>			
<u>Endosulfan I</u>	<u>959-98-8</u>	<u>0.066</u>			

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>Concn,</u>	<u>Concn, mg/l</u>	<u>Detection</u>
		<u>mg/kg or as</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u>
		<u>mg/l TCLP</u>			<u>or mg/l</u>
<u>Endosulfan II</u>	<u>33213-65-9</u>	<u>0.13</u>			
<u>Endosulfan sulfate</u>	<u>1031-07-8</u>	<u>0.13</u>			
<u>Endrin</u>	<u>72-20-8</u>	<u>0.13</u>			
<u>Endrin aldehyde</u>	<u>7421-93-4</u>	<u>0.13</u>			
<u>EPTC</u>	<u>759-94-4</u>	<u>1.4</u>			
<u>Ethyl acetate</u>	<u>141-78-6</u>	<u>33</u>			
<u>Ethyl benzene</u>	<u>100-41-4</u>	<u>10</u>	<u>ND</u>		<u>0.000729</u>
<u>Ethyl cyanide/Propanenitrile</u>	<u>107-12-0</u>	<u>360</u>			
<u>Ethyl ether</u>	<u>60-29-7</u>	<u>160</u>			
<u>bis(2-Ethylhexyl) phthalate</u>	<u>117-81-7</u>	<u>28</u>	<u>ND</u>		<u>0.0640</u>
<u>Ethyl methacrylate</u>	<u>97-63-2</u>	<u>160</u>	<u>ND</u>		<u>0.000391</u>
<u>Ethylene oxide</u>	<u>75-21-8</u>	<u>NA</u>			
<u>Famphur</u>	<u>52-85-7</u>	<u>15</u>			
<u>Fluoranthene</u>	<u>206-44-0</u>	<u>3.4</u>	<u>0.0170</u>		<u>0.00443</u>
<u>Fluorene</u>	<u>86-73-7</u>	<u>3.4</u>	<u>ND</u>		<u>0.00628</u>
<u>Formetanate hydrochloride</u>	<u>23422-53-9</u>	<u>1.4</u>			
<u>Formparanate</u>	<u>17702-57-7</u>	<u>1.4</u>			
<u>Heptachlor</u>	<u>76-44-8</u>	<u>0.066</u>			
<u>Heptachlor epoxide</u>	<u>1024-57-3</u>	<u>0.066</u>			
<u>Hexachlorobenzene</u>	<u>118-74-1</u>	<u>10</u>	<u>ND</u>		<u>0.00554</u>
<u>Hexachlorobutadiene</u>	<u>87-68-3</u>	<u>5.6</u>	<u>ND</u>		<u>0.00662</u>
<u>Hexachlorocyclopentadiene</u>	<u>77-47-4</u>	<u>2.4</u>	<u>ND</u>		<u>0.130</u>
<u>HxCDDs (All</u>	<u>NA</u>	<u>0.001</u>			
<u>Hexachlorodibenzo-p-dioxins)</u>					
<u>HxCDFs (All</u>	<u>NA</u>	<u>0.001</u>			
<u>Hexachlorodibenzo-furans)</u>					
<u>Hexachloroethane</u>	<u>67-72-1</u>	<u>30</u>	<u>ND</u>		<u>0.00804</u>
<u>Hexachloropropylene</u>	<u>1888-71-7</u>	<u>30</u>	<u>ND</u>		<u>0.00675</u>
<u>Indeno (1,2,3-c,d) pyrene</u>	<u>193-39-5</u>	<u>3.4</u>	<u>ND</u>		<u>0.00526</u>
<u>Iodomethane</u>	<u>74-88-4</u>	<u>65</u>	<u>ND</u>		<u>0.000814</u>
<u>Isobutyl alcohol</u>	<u>78-83-1</u>	<u>170</u>			
<u>Isodrin</u>	<u>465-73-6</u>	<u>0.066</u>			
<u>Isolan</u>	<u>119-38-0</u>	<u>1.4</u>			
<u>Isosafrole</u>	<u>120-58-1</u>	<u>2.6</u>	<u>ND</u>		<u>0.0176</u>
<u>Kepone</u>	<u>143-50-0</u>	<u>0.13</u>			
<u>Methacrylonitrile</u>	<u>126-98-7</u>	<u>84</u>			
<u>Methanol</u>	<u>67-56-1</u>	<u>0.75 mg/l</u>			
		<u>TCLP</u>			
<u>Methapyrilene</u>	<u>91-80-5</u>	<u>1.5</u>	<u>ND</u>		<u>0.112</u>
<u>Methiocarb</u>	<u>2032-65-7</u>	<u>1.4</u>			
<u>Methomyl</u>	<u>16752-77-5</u>	<u>0.14</u>			
<u>Methoxychlor</u>	<u>72-43-5</u>	<u>0.18</u>			
<u>3-Methylcholanthrene</u>	<u>56-49-5</u>	<u>15</u>	<u>ND</u>		<u>0.0232</u>

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>Concn,</u>	<u>Concn, mg/l</u>	<u>Detection</u>
		<u>mg/kg or as</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u>
		<u>mg/l TCLP</u>			<u>or mg/l</u>
<u>4,4-Methylene bis(2-chloroaniline)</u>	<u>101-14-4</u>	<u>30</u>			
<u>Methylene chloride</u>	<u>75-09-2</u>	<u>30</u>	<u>0.00158</u>		<u>0.000545</u>
<u>Methyl ethyl ketone</u>	<u>78-93-3</u>	<u>36</u>			
<u>Methyl isobutyl ketone</u>	<u>108-10-1</u>	<u>33</u>	<u>ND</u>		<u>0.000923</u>
<u>Methyl methacrylate</u>	<u>80-62-6</u>	<u>160</u>	<u>ND</u>		<u>0.000686</u>
<u>Methyl methanesulfonate</u>	<u>66-27-3</u>	<u>NA</u>			
<u>Methyl parathion</u>	<u>298-00-0</u>	<u>4.6</u>			
<u>Metolcarb</u>	<u>1129-41-5</u>	<u>1.4</u>			
<u>Mexacarbate</u>	<u>315-18-4</u>	<u>1.4</u>			
<u>Molinate</u>	<u>2212-67-1</u>	<u>1.4</u>			
<u>Naphthalene</u>	<u>91-20-3</u>	<u>0.00072</u>	<u>ND</u>		<u>0.000441</u>
<u>2-Naphthylamine</u>	<u>91-59-8</u>	<u>NA</u>			<u>0.0354</u>
<u>o-Nitroaniline</u>	<u>88-74-4</u>	<u>14</u>	<u>ND</u>		<u>0.00565</u>
<u>p-Nitroaniline</u>	<u>100-01-6</u>	<u>28</u>	<u>ND</u>		<u>0.00750</u>
<u>Nitrobenzene</u>	<u>98-95-3</u>	<u>14</u>	<u>ND</u>		<u>0.00686</u>
<u>5-Nitro-o-toluidine</u>	<u>99-55-8</u>	<u>28</u>			
<u>o-Nitrophenol</u>	<u>88-75-5</u>	<u>13</u>	<u>ND</u>		<u>0.00796</u>
<u>p-Nitrophenol</u>	<u>100-02-7</u>	<u>29</u>	<u>ND</u>		<u>0.0277</u>
<u>N-Nitrosodiethylamine</u>	<u>55-18-5</u>	<u>28</u>	<u>ND</u>		<u>0.0106</u>
<u>N-Nitrosodimethylamine</u>	<u>62-75-9</u>	<u>2.3</u>	<u>ND</u>		<u>0.0199</u>
<u>N-Nitroso-di-n-butylamine</u>	<u>924-16-3</u>	<u>17</u>	<u>ND</u>		<u>0.00765</u>
<u>N-Nitrosomethylethylamine</u>	<u>10595-95-6</u>	<u>2.3</u>	<u>ND</u>		<u>0.0213</u>
<u>N-Nitrosomorpholine</u>	<u>59-89-2</u>	<u>2.3</u>	<u>ND</u>		<u>0.00752</u>
<u>N-Nitrosopiperidine</u>	<u>100-75-4</u>	<u>35</u>	<u>ND</u>		<u>0.0109</u>
<u>N-Nitrosopyrrolidine</u>	<u>930-55-2</u>	<u>35</u>	<u>ND</u>		<u>0.00784</u>
<u>Oxamyl</u>	<u>23135-22-0</u>	<u>0.28</u>			
<u>Parathion</u>	<u>56-38-2</u>	<u>4.6</u>			
<u>Total PCBs (sum of all PCB isomers, or all Aroclors)</u>	<u>1336-36-3</u>	<u>10</u>			
<u>Pebulate</u>	<u>1114-71-2</u>	<u>1.4</u>			
<u>Pentachlorobenzene</u>	<u>608-93-5</u>	<u>10</u>	<u>ND</u>		<u>0.00496</u>
<u>PeCDDs (All Pentachlorodibenzo-p-dioxins)</u>	<u>NA</u>	<u>0.001</u>			
<u>PeCDFs (All Pentachlorodibenzo-furans)</u>	<u>NA</u>	<u>0.001</u>			
<u>Pentachloroethane</u>	<u>76-01-7</u>	<u>6.0</u>	<u>ND</u>		<u>0.0109</u>
<u>Pentachloronitrobenzene</u>	<u>82-68-8</u>	<u>4.8</u>	<u>ND</u>		<u>0.0368</u>
<u>Pentachlorophenol</u>	<u>87-86-5</u>	<u>7.4</u>	<u>ND</u>		<u>0.179</u>
<u>Phenacetin</u>	<u>62-44-2</u>	<u>16</u>	<u>ND</u>		<u>0.00919</u>
<u>Phenanthrene</u>	<u>85-01-8</u>	<u>5.6</u>	<u>ND</u>		<u>0.00567</u>
<u>Phenol</u>	<u>108-95-2</u>	<u>6.2</u>	<u>ND</u>		<u>0.00920</u>
<u>o-Phenylenediamine</u>	<u>95-54-5</u>	<u>5.6</u>			
<u>Phorate</u>	<u>298-02-2</u>	<u>4.6</u>			

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>Concn,</u>	<u>Concn, mg/l</u>	<u>Detection</u>
		<u>mg/kg or as</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u>
		<u>mg/l TCLP</u>			<u>or mg/l</u>
<u>Phthalic acid</u>	<u>100-21-0</u>	<u>28</u>			
<u>Phthalic anhydride</u>	<u>85-44-9</u>	<u>28</u>			
<u>Physostigmine</u>	<u>57-47-6</u>	<u>1.4</u>			
<u>Physostigmine salicylate</u>	<u>57-64-7</u>	<u>1.4</u>			
<u>Promecarb</u>	<u>2631-37-0</u>	<u>1.4</u>			
<u>Pronamide</u>	<u>23950-58-5</u>	<u>1.5</u>			
<u>Propham</u>	<u>122-42-9</u>	<u>1.4</u>			
<u>Propoxur</u>	<u>114-26-1</u>	<u>1.4</u>			
<u>Prosulfocarb</u>	<u>52888-80-9</u>	<u>1.4</u>			
<u>Pyrene</u>	<u>129-00-0</u>	<u>8.2</u>			
<u>Pyridine</u>	<u>110-86-1</u>	<u>16</u>	<u>ND</u>		<u>0.0230</u>
<u>Safrole</u>	<u>94-59-7</u>	<u>22</u>	<u>ND</u>		<u>0.00842</u>
<u>Silvex/2,4,5-TP</u>	<u>93-72-1</u>	<u>7.9</u>			
<u>1,2,4,5-Tetrachlorobenzene</u>	<u>95-94-3</u>	<u>14</u>	<u>ND</u>		<u>0.00513</u>
<u>TCDDs (All Tetrachlorodi-</u>	<u>NA</u>	<u>0.001</u>			
<u>benzo-p-dioxins)</u>					
<u>TCDFs (All</u>	<u>NA</u>	<u>0.001</u>			
<u>Tetrachlorodibenzofurans)</u>					
<u>1,1,1,2-Tetrachloroethane</u>	<u>630-20-6</u>	<u>6.0</u>	<u>ND</u>		<u>0.000696</u>
<u>1,1,2,2-Tetrachloroethane</u>	<u>79-34-5</u>	<u>6.0</u>	<u>ND</u>		<u>0.000868</u>
<u>Tetrachloroethylene</u>	<u>127-18-4</u>	<u>6.0</u>	<u>ND</u>		<u>0.00105</u>
<u>2,3,4,6-Tetrachlorophenol</u>	<u>58-90-2</u>	<u>7.4</u>	<u>ND</u>		<u>0.0179</u>
<u>Thiodicarb</u>	<u>59669-26-0</u>	<u>1.4</u>			
<u>Thiophanate-methyl</u>	<u>23564-05-8</u>	<u>1.4</u>			
<u>Tirpate</u>	<u>26419-73-8</u>	<u>0.28</u>			
<u>Toluene</u>	<u>108-88-3</u>	<u>10</u>	<u>ND</u>		<u>0.000497</u>
<u>Toxaphene</u>	<u>8001-35-2</u>	<u>2.6</u>			
<u>Triallate</u>	<u>2303-17-5</u>	<u>1.4</u>			
<u>Tribromomethane/Bromoform</u>	<u>75-25-2</u>	<u>15</u>			
<u>1,2,4-Trichlorobenzene</u>	<u>120-82-1</u>	<u>19</u>	<u>ND</u>		<u>0.00696</u>
<u>1,1,1-Trichloroethane</u>	<u>71-55-6</u>	<u>6.0</u>	<u>ND</u>		<u>0.000737</u>
<u>1,1,2-Trichloroethane</u>	<u>79-00-5</u>	<u>6.0</u>	<u>ND</u>		<u>0.000727</u>
<u>Trichloroethylene</u>	<u>79-01-6</u>	<u>6.0</u>	<u>ND</u>		<u>0.000935</u>
<u>Trichloromonofluoromethane</u>	<u>75-69-4</u>	<u>30</u>			
<u>2,4,5-Trichlorophenol</u>	<u>95-95-4</u>	<u>7.4</u>	<u>ND</u>		<u>0.00850</u>
<u>2,4,6-Trichlorophenol</u>	<u>88-06-2</u>	<u>7.4</u>	<u>ND</u>		<u>0.00463</u>
<u>2,4,5-Trichlorophenoxyacetic</u>	<u>93-76-5</u>	<u>7.9</u>			
<u>acid/2,4,5-T</u>					
<u>1,2,3-Trichloropropane</u>	<u>96-18-4</u>	<u>30</u>	<u>ND</u>		<u>0.000847</u>
<u>1,1,2-Trichloro-1,2,2-</u>	<u>76-13-1</u>	<u>30</u>	<u>ND</u>		<u>0.000761</u>
<u>trifluoroethane</u>					
<u>Triethylamine</u>	<u>101-44-8</u>	<u>1.5</u>			
<u>tris-(2,3-Dibromopropyl)</u>	<u>126-72-7</u>	<u>0.10</u>			
<u>phosphate</u>					

<u>Regulated Constituent</u> <u>Common Name</u>	<u>CAS Number</u>	<u>Non WW</u>	<u>Analytical Results</u>		
		<u>Standard</u>	<u>Concn,</u>	<u>Concn, mg/l</u>	<u>Detection</u>
		<u>mg/kg or as</u>	<u>mg/kg</u>	<u>(TCLP)</u>	<u>Limit mg/kg</u>
		<u>mg/l TCLP</u>			<u>or mg/l</u>
<u>Vernolate</u>	<u>1929-77-7</u>	<u>1.4</u>			
<u>Vinyl chloride</u>	<u>75-01-4</u>	<u>6.0</u>	<u>ND</u>		<u>0.00115</u>
<u>Xylenes-mixed isomers (sum of</u> <u>o-, m-, and p-xylene</u> <u>concentrations)</u>	<u>1330-20-7</u>	<u>30</u>	<u>ND</u>		<u>0.00153</u>
<u>Antimony</u>	<u>7440-36-0</u>	<u>2.1 mg/l</u> <u>TCLP</u>		<u>0.0065</u>	<u>0.00309</u>
<u>Arsenic</u>	<u>7440-38-2</u>	<u>5.0 mg/l</u> <u>TCLP</u>		<u>0.0145</u>	<u>0.00156</u>
<u>Barium</u>	<u>7440-39-3</u>	<u>7.6 mg/l</u> <u>TCLP</u>		<u>0.159</u>	<u>0.00052</u>
<u>Beryllium</u>	<u>7440-41-7</u>	<u>0.014 mg/l</u> <u>TCLP</u>		<u>0.0079</u>	<u>0.00007</u>
<u>Cadmium</u>	<u>7440-43-9</u>	<u>0.19 mg/l</u> <u>TCLP</u>		<u>ND</u>	<u>0.0003</u>
<u>Chromium (Total)</u>	<u>7440-47-3</u>	<u>0.86 mg/l</u> <u>TCLP</u>		<u>0.0222</u>	<u>0.00109</u>
<u>Cyanides (Total)¹</u>	<u>57-12-5</u>	<u>590</u>			
<u>Cyanides (Amenable)¹</u>	<u>57-12-5</u>	<u>30</u>			
<u>Fluoride²</u>	<u>16984-48-8</u>	<u>NA</u>			
<u>Lead</u>	<u>7439-92-1</u>	<u>0.37 mg/l</u> <u>TCLP</u>		<u>0.0043</u>	<u>0.00118</u>
<u>Mercury--Nonwastewater from</u> <u>Retort</u>	<u>7439-97-6</u>	<u>0.20 mg/l</u> <u>TCLP</u>			
<u>Mercury--All Others</u>	<u>7439-97-6</u>	<u>0.025 mg/l</u> <u>TCLP</u>		<u>ND</u>	<u>0.00006</u>
<u>Nickel</u>	<u>7440-02-0</u>	<u>5.0 mg/l</u> <u>TCLP</u>		<u>0.379</u>	<u>0.00168</u>
<u>Selenium</u>	<u>7782-49-2</u>	<u>0.16 mg/l</u> <u>TCLP</u>		<u>ND</u>	<u>0.00388</u>
<u>Silver</u>	<u>7440-22-4</u>	<u>0.30 mg/l</u> <u>TCLP</u>		<u>ND</u>	<u>0.00087</u>
<u>Sulfide</u>	<u>18496-25-8</u>	<u>NA</u>			
<u>Thallium</u>	<u>7440-28-0</u>	<u>0.078 mg/l</u> <u>TCLP</u>		<u>ND</u>	<u>0.0048</u>
<u>Vanadium²</u>	<u>7440-62-2</u>	<u>0.23 mg/l</u> <u>TCLP</u>		<u>0.0486</u>	<u>0.00059</u>
<u>Zinc²</u>	<u>7440-66-6</u>	<u>5.3 mg/l</u> <u>TCLP</u>		<u>0.0111</u>	<u>0.00233</u>

Notes:

CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with it's salts and/or esters, the CAS number is given for the parent compound only.44.

Concentration standards for wastewaters are expressed in mg/l and are based on analysis of composite samples.

Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart O, or 40 CFR part 265, subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in Sec. 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.

Universal Treatment Standards
Frit Test Results

ND means Non-District, Concn means concentration, and TCLP means Toxicity Characteristic Leaching Procedure.

¹ Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

² These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at Sec. 268.2(i).
Source: Global Energy 2001c.

