

MONITORING AND REPORTING PROGRAM NO. R5-2012-0064  
 COUNTY OF FRESNO  
 AMERICAN AVENUE MUNICIPAL SOLID WASTE FACILITY  
 FRESNO COUNTY

**TABLE I**  
**GROUNDWATER DETECTION MONITORING PROGRAM**

<u>Parameter</u>	<u>Units</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
<b>Field Parameters</b>			
Groundwater Elevation	Ft. & 100ths, M.S.L.	Quarterly	Semiannual
Temperature	°F	Semiannual	Semiannual
Electrical Conductivity	umhos/cm	Semiannual	Semiannual
pH	pH units	Semiannual	Semiannual
Turbidity	Turbidity units	Semiannual	Semiannual

**Monitoring Parameters**

Total Dissolved Solids (TDS)	mg/L <sup>1</sup>	Semiannual	Semiannual
Chloride	mg/L	Semiannual	Semiannual
Carbonate	mg/L	Semiannual	Semiannual
Bicarbonate	mg/L	Semiannual	Semiannual
Nitrate - Nitrogen	mg/L	Semiannual	Semiannual
Sulfate	mg/L	Semiannual	Semiannual
Calcium	mg/L	Semiannual	Semiannual
Magnesium	mg/L	Semiannual	Semiannual
Potassium	mg/L	Semiannual	Semiannual
Sodium	mg/L	Semiannual	Semiannual
Volatile Organic Compounds	ug/L <sup>2</sup>	Semiannual	Semiannual
(USEPA Method 8260B, short list, see Table V)			

**5-Year Constituents of Concern (see Table VI)**

Total Organic Carbon	mg/L	5 years	2013
Inorganics (dissolved)	ug/L	5 years	and every 5 years
Volatile Organic Compounds	ug/L	5 years	thereafter
(USEPA Method 8260B, extended list)			
Semi-Volatile Organic Compounds	ug/L	5 years	" "
(USEPA Method 8270D)			
Chlorophenoxy Herbicides	ug/L	5 years	" "
(USEPA Method 8151A)			
Organophosphorus Compounds	ug/L	5 years	" "
(USEPA Method 8141B)			

<sup>1</sup> Milligrams per liter

<sup>2</sup> Micrograms per liter

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**TABLE II**  
**UNSATURATED ZONE DETECTION MONITORING PROGRAM**

**PAN LYSIMETERS<sup>1</sup> (or other vadose zone monitoring device)**

<u>Parameter</u>	<u>Units</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
<b>Field Parameters</b>			
Electrical Conductivity	umhos/cm	Semiannual	Semiannual
pH	pH units	Semiannual	Semiannual
Volume of liquid removed	gallons	Monthly	Semiannual
<b>Monitoring Parameters</b>			
Total Dissolved Solids (TDS)	mg/L	Semiannual	Semiannual
Chloride	mg/L	Semiannual	Semiannual
Carbonate	mg/L	Semiannual	Semiannual
Bicarbonate	mg/L	Semiannual	Semiannual
Nitrate - Nitrogen	mg/L	Semiannual	Semiannual
Sulfate	mg/L	Semiannual	Semiannual
Calcium	mg/L	Semiannual	Semiannual
Magnesium	mg/L	Semiannual	Semiannual
Potassium	mg/L	Semiannual	Semiannual
Sodium	mg/L	Semiannual	Semiannual
Volatile Organic Compounds (USEPA Method 8260B, short list, see Table V)	ug/L	Semiannual	Semiannual
<b>5-Year Constituents of Concern (see Table VI)</b>			
Total Organic Carbon	mg/L	5 years	2013
Inorganics (dissolved)	ug/L	5 years	and every 5 years
Volatile Organic Compounds (USEPA Method 8260B, extended list)	ug/L	5 years	thereafter
Semi-Volatile Organic Compounds (USEPA Method 8270D)	ug/L	5 years	" "
Chlorophenoxy Herbicides (USEPA Method 8151A)	ug/L	5 years	" "
Organophosphorus Compounds (USEPA Method 8141B)	ug/L	5 years	" "

<sup>1</sup> Pan lysimeters shall be inspected for the presence of liquid **monthly**. If liquid is detected in a previously dry pan lysimeter, the Discharger shall verbally notify Central Valley Water Board staff within **seven days** and shall immediately sample and test the liquid for Field and Monitoring Parameters listed in Table II.

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**TABLE III**  
**LEACHATE MONITORING <sup>1</sup>, SEEP MONITORING <sup>2</sup>, AND LCRS TESTING <sup>3</sup>**

<u>Parameter</u>	<u>Units</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
<b>Field Parameters</b>			
Total Flow	Gallons	Monthly	Semiannual
Flow Rate	Gallons/Day	Monthly	Semiannual
Electrical Conductivity	umhos/cm	Quarterly	Semiannual
pH	pH units	Quarterly	Semiannual
<b>Monitoring Parameters</b>			
Total Dissolved Solids (TDS)	mg/L	Annually	Annually
Chloride	mg/L	Annually	Annually
Carbonate	mg/L	Annually	Annually
Bicarbonate	mg/L	Annually	Annually
Nitrate - Nitrogen	mg/L	Annually	Annually
Sulfate	mg/L	Annually	Annually
Calcium	mg/L	Annually	Annually
Magnesium	mg/L	Annually	Annually
Potassium	mg/L	Annually	Annually
Sodium	mg/L	Annually	Annually
Volatile Organic Compounds (USEPA Method 8260B, short list, see Table V)	ug/L	Annually	Annually
<b>5-Year Constituents of Concern (see Table VI)</b>			
Total Organic Carbon	mg/L	5 years	2013
Inorganics (dissolved)	ug/L	5 years	and every 5 years
Volatile Organic Compounds (USEPA Method 8260B, extended list)	ug/L	5 years	thereafter
Semi-Volatile Organic Compounds (USEPA Method 8270D)	ug/L	5 years	" "
Chlorophenoxy Herbicides (USEPA Method 8151A)	ug/L	5 years	" "
Organophosphorus Compounds (USEPA Method 8141B)	ug/L	5 years	" "

**LCRS Testing <sup>3</sup>** --- Annually Annually

<sup>1</sup> If leachate is detected in a previously dry sump, the Discharger shall verbally notify Central Valley Water Board staff within **seven days** and shall immediately sample and test the leachate for Field and Monitoring Parameters listed in Table III. Leachate in the LCRS sump shall then be sampled for all parameters and constituents in accordance with the frequencies listed in Table III whenever liquid is present.

<sup>2</sup> Leachate seeps shall be sampled and analyzed for the Field and Monitoring Parameters in this table upon detection. The quantity of leachate shall be estimated and reported in gallons/day. Also, refer to Section B.3

<sup>3</sup> The Discharger shall test each LCRS annually pursuant to Title 27, section 20340(d) to demonstrate proper operation. The results of the tests shall be compared with earlier tests made under comparable conditions.

**TABLE IV**  
**SURFACE WATER DETECTION MONITORING PROGRAM**

<u>Parameter</u>	<u>Units</u>	<u>Sampling Frequency</u> <sup>1</sup>	<u>Reporting Frequency</u>
<b>Field Parameters</b>			
Electrical Conductivity	umhos/cm	Semiannual	Semiannual
pH	pH units	Semiannual	Semiannual
Turbidity	Turbidity units	Semiannual	Semiannual
Flow to Waters of U.S.	Yes or No	Semiannual	Semiannual
<b>Monitoring Parameters</b>			
Total Dissolved Solids (TDS)	mg/L	Semiannual	Semiannual
Carbonate	mg/L	Semiannual	Semiannual
Bicarbonate	mg/L	Semiannual	Semiannual
Chloride	mg/L	Semiannual	Semiannual
Nitrate - Nitrogen	mg/L	Semiannual	Semiannual
Sulfate	mg/L	Semiannual	Semiannual
Calcium	mg/L	Semiannual	Semiannual
Magnesium	mg/L	Semiannual	Semiannual
Potassium	mg/L	Semiannual	Semiannual
Sodium	mg/L	Semiannual	Semiannual
Volatile Organic Compounds (USEPA Method 8260B, short list, see Table V)	ug/L	Semiannual	Semiannual
<b>5-Year Constituents of Concern (see Table VI)</b>			
Total Organic Carbon	mg/L	5 years	2013
Inorganics (dissolved)	ug/L	5 years	and every 5 years
Volatile Organic Compounds (USEPA Method 8260B, extended list)	ug/L	5 years	thereafter
Semi-Volatile Organic Compounds (USEPA Method 8270D)	ug/L	5 years	" "
Chlorophenoxy Herbicides (USEPA Method 8151A)	ug/L	5 years	" "
Organophosphorus Compounds (USEPA Method 8141B)	ug/L	5 years	" "

<sup>1</sup> Semiannual surface water monitoring is required twice per year when there is water present at the designated surface water monitoring point any time during the reporting period (1 January to 30 June or 1 July to 31 December). Reporting shall include whether there was flow from the facility to waters of the U.S. when the samples were collected.

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TABLE V

## MONITORING PARAMETERS FOR DETECTION MONITORING

## Surrogates for Metallic Constituents:

pH  
 Total Dissolved Solids  
 Electrical Conductivity  
 Chloride  
 Sulfate  
 Nitrate nitrogen

## Volatile Organic Compounds, short list:

USEPA Method 8260B

Acetone  
 Acrylonitrile  
 Benzene  
 Bromochloromethane  
 Bromodichloromethane  
 Bromoform (Tribromomethane)  
 Carbon disulfide  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroethane (Ethyl chloride)  
 Chloroform (Trichloromethane)  
 Dibromochloromethane (Chlorodibromomethane)  
 1,2-Dibromo-3-chloropropane (DBCP)  
 1,2-Dibromoethane (Ethylene dibromide; EDB)  
 o-Dichlorobenzene (1,2-Dichlorobenzene)  
 m-Dichlorobenzene (1,3-Dichlorobenzene)  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 trans-1,4-Dichloro-2-butene  
 Dichlorodifluoromethane (CFC-12)  
 1,1-Dichloroethane (Ethylidene chloride)  
 1,2-Dichloroethane (Ethylene dichloride)  
 1,1 -Dichloroethylene (1,1 -Dichloroethene; Vinylidene chloride)  
 cis- 1,2-Dichloroethylene (cis- 1,2-Dichloroethene)  
 trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)  
 1,2-Dichloropropane (Propylene dichloride)  
 cis- 1,3-Dichloropropene  
 trans- 1,3-Dichloropropene  
 Di-isopropylether (DIPE)  
 Ethanol  
 Ethyltertiary butyl ether  
 Ethylbenzene  
 2-Hexanone (Methyl butyl ketone)  
 Hexachlorobutadiene  
 Methyl bromide (Bromomethane)  
 Methyl chloride (Chloromethane)

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**TABLE V**  
**MONITORING PARAMETERS FOR DETECTION MONITORING**

**Continued**

Methylene bromide (Dibromomethane)  
Methylene chloride (Dichloromethane)  
Methyl ethyl ketone (MEK: 2-Butanone)  
Methyl iodide (Iodomethane)  
Methyl t-butyl ether  
4-Methyl-2-pentanone (Methyl isobutylketone)  
Naphthalene  
Styrene  
Tertiary amyl methyl ether  
Tertiary butyl alcohol  
1,1,1,2-Tetrachloroethane  
1,1,2,2-Tetrachloroethane  
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene)  
Toluene  
1,2,4-Trichlorobenzene  
1,1,1-Trichloroethane (Methylchloroform)  
1,1,2-Trichloroethane  
Trichloroethylene (Trichloroethene)  
Trichlorofluoromethane (CFC- 11)  
1,2,3-Trichloropropane  
Vinyl acetate  
Vinyl chloride  
Xylenes

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TABLE VI

## 5-YEAR COCs &amp; APPROVED USEPA ANALYTICAL METHODS

Inorganics (dissolved):USEPA Method

Aluminum	6010
Antimony	7041
Barium	6010
Beryllium	6010
Cadmium	7131A
Chromium	6010
Cobalt	6010
Copper	6010
Silver	6010
Tin	6010
Vanadium	6010
Zinc	6010
Iron	6010
Manganese	6010
Arsenic	7062
Lead	7421
Mercury	7470A
Nickel	7521
Selenium	7742
Thallium	7841
Cyanide	9010C
Sulfide	9030B

**Volatile Organic Compounds, extended list:**USEPA Method 8260B

Acetone  
 Acetonitrile (Methyl cyanide)  
 Acrolein  
 Acrylonitrile  
 Allyl chloride (3-Chloropropene)  
 Benzene  
 Bromochloromethane (Chlorobromomethane)  
 Bromodichloromethane (Dibromochloromethane)  
 Bromoform (Tribromomethane)  
 Carbon disulfide  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroethane (Ethyl chloride)  
 Chloroform (Trichloromethane)  
 Chloroprene  
 Dibromochloromethane (Chlorodibromomethane)  
 1,2-Dibromo-3-chloropropane (DBCP)  
 1,2-Dibromoethane (Ethylene dibromide; EDB)  
 o-Dichlorobenzene (1,2-Dichlorobenzene)

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## TABLE VI

## 5-YEAR COCs &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

m-Dichlorobenzene (1,3-Dichlorobenzene)  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 trans- 1,4-Dichloro-2-butene  
 Dichlorodifluoromethane (CFC 12)  
 1,1 -Dichloroethane (Ethylidene chloride)  
 1,2-Dichloroethane (Ethylene dichloride)  
 1,1 -Dichloroethylene (1, I-Dichloroethene; Vinylidene chloride)  
 cis- 1,2-Dichloroethylene (cis- 1,2-Dichloroethene)  
 trans- 1,2-Dichloroethylene (trans- 1,2-Dichloroethene)  
 1,2-Dichloropropane (Propylene dichloride)  
 1,3-Dichloropropane (Trimethylene dichloride)  
 2,2-Dichloropropane (Isopropylidene chloride)  
 1,1 -Dichloropropene  
 cis- 1,3-Dichloropropene  
 trans- 1,3-Dichloropropene  
 Di-isopropylether (DIPE)  
 Ethanol  
 Ethyltertiary butyl ether  
 Ethylbenzene  
 Ethyl methacrylate  
 Hexachlorobutadiene  
 2-Hexanone (Methyl butyl ketone)  
 Isobutyl alcohol  
 Methacrylonitrile  
 Methyl bromide (Bromomethane)  
 Methyl chloride (Chloromethane)  
 Methyl ethyl ketone (MEK; 2-Butanone)  
 Methyl iodide (Iodomethane)  
 Methyl t-butyl ether  
 Methyl methacrylate  
 4-Methyl-2-pentanone (Methyl isobutyl ketone)  
 Methylene bromide (Dibromomethane)  
 Methylene chloride (Dichloromethane)  
 Naphthalene  
 Propionitrile (Ethyl cyanide)  
 Styrene  
 Tertiary amyl methyl ether  
 Tertiary butyl alcohol  
 1,1,1,2-Tetrachloroethane  
 1,1,2,2-Tetrachloroethane  
 Tetrachloroethylene (Tetrachloroethene; Perchloroethylene; PCE)  
 Toluene  
 1,2,4-Trichlorobenzene



TABLE VI

## 5-YEAR COCs &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

1,1,1-Trichloroethane (Methylchloroform)  
 1,1,2-Trichloroethane  
 Trichloroethylene (Trichloroethene; TCE)  
 Trichlorofluoromethane (CFC- 11)  
 1,2,3-Trichloropropane  
 Vinyl acetate  
 Vinyl chloride (Chloroethene)  
 Xylene (total)

## Semi-Volatile Organic Compounds:

USEPA Method 8270D - base, neutral, & acid extractables

Acenaphthene  
 Acenaphthylene  
 Acetophenone  
 2-Acetylaminofluorene (2-AAF)  
 Aldrin  
 4-Aminobiphenyl  
 Anthracene  
 Benzo[a]anthracene (Benzanthracene)  
 Benzo[b]fluoranthene  
 Benzo[k]fluoranthene  
 Benzo[g,h,i]perylene  
 Benzo[a]pyrene  
 Benzyl alcohol  
 Bis(2-ethylhexyl) phthalate  
 alpha-BHC  
 beta-BHC  
 delta-BHC  
 gamma-BHC (Lindane)  
 Bis(2-chloroethoxy)methane  
 Bis(2-chloroethyl) ether (Dichloroethyl ether)  
 Bis(2-chloro-1-methylethyl) ether (Bis(2-chloroisopropyl) ether; DCIP)  
 4-Bromophenyl phenyl ether  
 Butyl benzyl phthalate (Benzyl butyl phthalate)  
 Chlordane  
 p-Chloroaniline  
 Chlorobenzilate  
 p-Chloro-m-cresol (4-Chloro-3-methylphenol)  
 2-Chloronaphthalene  
 2-Chlorophenol  
 4-Chlorophenyl phenyl ether  
 Chrysene  
 o-Cresol (2-methylphenol)  
 m-Cresol (3-methylphenol)  
 p-Cresol (4-methylphenol)

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TABLE VI

## 5-YEAR COCs &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

4,4'-DDD  
4,4'-DDE  
4,4'-DDT  
Diallate  
Dibenz[a,h]anthracene  
Dibenzofuran  
Di-n-butyl phthalate  
3,3'-Dichlorobenzidine  
2,4-Dichlorophenol  
2,6-Dichlorophenol  
Dieldrin  
Diethyl phthalate  
p-(Dimethylamino)azobenzene  
7,12-Dimethylbenz[a]anthracene  
3,3'-Dimethylbenzidine  
2,4-Dimethylphenol (m-Xylenol)  
Dimethyl phthalate  
m-Dinitrobenzene  
4,6-Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)  
2,4-Dinitrophenol  
2,4-Dinitrotoluene  
2,6-Dinitrotoluene  
Di-n-octyl phthalate  
Diphenylamine  
Endosulfan I  
Endosulfan II  
Endosulfan sulfate  
Endrin  
Endrin aldehyde  
Ethyl methanesulfonate  
Famphur  
Fluoranthene  
Fluorene  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Hexachloroethane  
Hexachloropropene  
Indeno(1,2,3-c,d)pyrene  
Isodrin  
Isophorone  
Isosafrole  
Kepone  
Methapyrilene  
Methoxychlor  
3-Methylcholanthrene

## TABLE VI

## 5-YEAR COCs &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

Methyl methanesulfonate  
 2-Methylnaphthalene  
 1,4-Naphthoquinone  
 1-Naphthylamine  
 2-Naphthylamine  
 o-Nitroaniline (2-Nitroaniline)  
 m-Nitroaniline (3-Nitroaniline)  
 p-Nitroaniline (4-Nitroaniline)  
 Nitrobenzene  
 o-Nitrophenol (2-Nitrophenol)  
 p-Nitrophenol (4-Nitrophenol)  
 N-Nitrosodi-n-butylamine (Di-n-butylnitrosamine)  
 N-Nitrosodiethylamine (Diethylnitrosamine)  
 N-Nitrosodimethylamine (Dimethylnitrosamine)  
 N-Nitrosodiphenylamine (Diphenylnitrosamine)  
 N-Nitrosodipropylamine (N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine)  
 N-Nitrosomethylethylamine (Methylethylnitrosamine)  
 N-Nitrosopiperidine  
 N-Nitrosospyrrolidine  
 5-Nitro-o-toluidine  
 Pentachlorobenzene  
 Pentachloronitrobenzene (PCNB)  
 Pentachlorophenol  
 Phenacetin  
 Phenanthrene  
 Phenol  
 p-Phenylenediamine  
 Polychlorinated biphenyls (PCBs; Aroclors)  
 Pronamide  
 Pyrene  
 Safrole  
 1,2,4,5-Tetrachlorobenzene  
 2,3,4,6-Tetrachlorophenol  
 o-Toluidine  
 Toxaphene  
 2,4,5-Trichlorophenol  
 0,0,0-Triethyl phosphorothioate  
 sym-Trinitrobenzene

MONITORING AND REPORTING PROGRAM NO. 5-00-233  
COUNTY OF FRESNO AND  
CHEVRON USA, INC.  
FOR OPERATION  
COALINGA SOLID WASTE DISPOSAL SITE  
FRESNO COUNTY

**TABLE I**  
**GROUNDWATER DETECTION MONITORING PROGRAM**

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
<b>Field Parameters</b>		
Groundwater Elevation	Ft. & hundredths, M.S.L.	Quarterly
Temperature	°C	Semiannual
Electrical Conductivity	µmhos/cm	Semiannual
pH	pH units	Semiannual
Turbidity	Turbidity units	Semiannual
<b>Monitoring Parameters</b>		
Total Dissolved Solids (TDS)	mg/L	Semiannual
Chloride	mg/L	Semiannual
Carbonate	mg/L	Semiannual
Bicarbonate	mg/L	Semiannual
Nitrate - Nitrogen	mg/L	Semiannual
Sulfate	mg/L	Semiannual
Calcium	mg/L	Semiannual
Magnesium	mg/L	Semiannual
Potassium	mg/L	Semiannual
Sodium	mg/L	Semiannual
Volatile Organic Compounds (USEPA Method 8260, see Table IV)	µg/L	Semiannual
<b>Constituents of Concern (see Table V)</b>		
Total Organic Carbon	mg/L	5 years
Inorganics (dissolved)	mg/L	5 years
Volatile Organic Compounds (USEPA Method 8260, extended list)	µg/L	5 years
Semi-Volatile Organic Compounds (USEPA Method 8270)	µg/L	5 years
Chlorophenoxy Herbicides (USEPA Method 8150)	µg/L	5 years
Organophosphorus Compounds (USEPA Method 8141)	µg/L	5 years

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 FOR OPERATION  
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**TABLE II**  
**UNSATURATED ZONE DETECTION MONITORING PROGRAM**

**SOIL-PORE GAS**

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
<b>Monitoring Parameters</b>		
Volatile Organic Compounds (USEPA Method TO-14)	$\mu\text{g}/\text{cm}^3$	Semiannual
Methane	%	Semiannual

**PAN LYSIMETERS (or other vadose zone monitoring device)**

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
<b>Field Parameters</b>		
Electrical Conductivity	$\mu\text{mhos}/\text{cm}$	Semiannual
pH	pH units	Semiannual

**Monitoring Parameters**

Total Dissolved Solids (TDS)	mg/L	Semiannual
Chloride	mg/L	Semiannual
Carbonate	mg/L	Semiannual
Bicarbonate	mg/L	Semiannual
Nitrate - Nitrogen	mg/L	Semiannual
Sulfate	mg/L	Semiannual
Calcium	mg/L	Semiannual
Magnesium	mg/L	Semiannual
Potassium	mg/L	Semiannual
Sodium	mg/L	Semiannual
Volatile Organic Compounds (USEPA Method 8260, see Table IV)	$\mu\text{g}/\text{L}$	Semiannual

**Constituents of Concern (see Table V)**

Total Organic Carbon	mg/L	5 years
Inorganics (dissolved)	mg/L	5 years
Volatile Organic Compounds (USEPA Method 8260, extended list)	$\mu\text{g}/\text{L}$	5 years

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FRESNO COUNTY

TABLE II

## UNSATURATED ZONE DETECTION MONITORING PROGRAM

## Continued

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
Semi-Volatile Organic Compounds (USEPA Method 8270)	µg/L	5 years
Chlorophenoxy Herbicides (USEPA Method 8150)	µg/L	5 years
Organophosphorus Compounds (USEPA Method 8141)	µg/L	5 years

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 CHEVRON USA, INC.  
 FOR OPERATION  
 COALINGA SOLID WASTE DISPOSAL SITE  
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**TABLE III**  
**LEACHATE DETECTION MONITORING PROGRAM**

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
<b>Field Parameters</b>		
Total Flow	Gallons	Monthly
Flow Rate	Gallons/Day	Monthly
Electrical Conductivity	µmhos/cm	Monthly
pH	pH units	Monthly
<b>Monitoring Parameters</b>		
Total Dissolved Solids (TDS)	mg/L	Annually
Chloride	mg/L	Annually
Carbonate	mg/L	Annually
Bicarbonate	mg/L	Annually
Nitrate - Nitrogen	mg/L	Annually
Sulfate	mg/L	Annually
Calcium	mg/L	Annually
Magnesium	mg/L	Annually
Potassium	mg/L	Annually
Sodium	mg/L	Annually
Volatile Organic Compounds (USEPA Method 8260, see Table IV)	µg/L	Annually
<b>Constituents of Concern (see Table V)</b>		
Total Organic Carbon	mg/L	5 years
Inorganics (dissolved)	mg/L	5 years
Volatile Organic Compounds (USEPA Method 8260, extended list)	µg/L	5 years
Semi-Volatile Organic Compounds (USEPA Method 8270)	µg/L	5 years
Chlorophenoxy Herbicides (USEPA Method 8150)	µg/L	5 years
Organophosphorus Compounds (USEPA Method 8141)	µg/L	5 years

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## TABLE IV

## MONITORING PARAMETERS FOR DETECTION MONITORING

## Surrogates for Metallic Constituents:

pH  
 Total Dissolved Solids  
 Electrical Conductivity  
 Chloride  
 Sulfate  
 Nitrate nitrogen

## Constituents included in VOC:

USEPA Method 8260

Acetone  
 Acrylonitrile  
 Benzene  
 Bromochloromethane  
 Bromodichloromethane  
 Bromoform (Tribromomethane)  
 Carbon disulfide  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroethane (Ethyl chloride)  
 Chloroform (Trichloromethane)  
 Dibromochloromethane (Chlorodibromomethane)  
 1,2-Dibromo-3-chloropropane (DBCP)  
 1,2-Dibromoethane (Ethylene dibromide; EDB)  
 o-Dichlorobenzene (1,2-Dichlorobenzene)  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 trans-1,4-Dichloro-2-butene  
 1,1-Dichloroethane (Ethylidene chloride)  
 1,2-Dichloroethane (Ethylene dichloride)  
 1,1-Dichloroethylene (1,1-Dichloroethene; Vinylidene chloride)  
 cis-1,2-Dichloroethylene (cis-1,2-Dichloroethene)  
 trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)  
 1,2-Dichloropropane (Propylene dichloride)  
 cis-1,3-Dichloropropene  
 trans-1,3-Dichloropropene  
 Ethylbenzene  
 2-Hexanone (Methyl butyl ketone)  
 Methyl bromide (Bromomethane)



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TABLE IV  
MONITORING PARAMETERS FOR DETECTION MONITORING  
Continued

Methyl chloride (Chloromethane)  
Methylene bromide (Dibromomethane)  
Methylene chloride (Dichloromethane)  
Methyl ethyl ketone (MEK: 2-Butanone)  
Methyl iodide (Iodomethane)  
4-Methyl-2-pentanone (Methyl isobutylketone)  
Styrene  
1,1,1,2-Tetrachloroethane  
1,1,2,2-Tetrachloroethane  
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene)  
Toluene  
1,1,1-Trichloroethane (Methylchloroform)  
1,1,2-Trichloroethane  
Trichloroethylene (Trichloroethene)  
Trichlorofluoromethane (CFC- 11)  
1,2,3-Trichloropropane  
Vinyl acetate  
Vinyl chloride  
Xylenes

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TABLE V  
 CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

<u>Inorganics:</u>	<u>USEPA Method</u>
Aluminum	6010
Antimony	6010
Barium	6010
Beryllium	6010
Cadmium	6010
Chromium	6010
Cobalt	6010
Copper	6010
Silver	6010
Tin	6010
Vanadium	6010
Zinc	6010
Iron	6010
Manganese	6010
Arsenic	7062
Lead	7421
Mercury	7470
Nickel	7520
Selenium	7742
Thallium	7841
Cyanide	9010
Sulfide	9030

**Volatile Organic Compounds:**

USEPA Method 8260

Acetone  
 Acetonitrile (Methyl cyanide)  
 Acrolein  
 Acrylonitrile  
 Allyl chloride (3-Chloropropene)  
 Benzene  
 Bromochloromethane (Chlorobromomethane)  
 Bromodichloromethane (Dibromochloromethane)  
 Bromoform (Tribromomethane)  
 Carbon disulfide  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroethane (Ethyl chloride)  
 Chloroform (Trichloromethane)  
 Chloroprene

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TABLE V

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

Continued

Dibromochloromethane (Chlorodibromomethane)  
 1,2-Dibromo-3-chloropropane (DBCP)  
 1,2-Dibromoethane (Ethylene dibromide; EDB)  
 o-Dichlorobenzene (1,2-Dichlorobenzene)  
 m-Dichlorobenzene (1,3-Dichlorobenzene)  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 trans- 1,4-Dichloro-2-butene  
 Dichlorodifluoromethane (CFC 12)  
 1,1 -Dichloroethane (Ethylidene chloride)  
 1,2-Dichloroethane (Ethylene dichloride)  
 1,1 -Dichloroethylene (1, 1-Dichloroethene; Vinylidene chloride)  
 cis- 1,2-Dichloroethylene (cis- 1,2-Dichloroethene)  
 trans- 1,2-Dichloroethylene (trans- 1,2-Dichloroethene)  
 1,2-Dichloropropane (Propylene dichloride)  
 1,3-Dichloropropane (Trimethylene dichloride)  
 2,2-Dichloropropane (Isopropylidene chloride)  
 1,1 -Dichloropropene  
 cis- 1,3-Dichloropropene  
 trans- 1,3-Dichloropropene  
 Ethylbenzene  
 Ethyl methacrylate  
 Hexachlorobutadiene  
 2-Hexanone (Methyl butyl ketone)  
 Isobutyl alcohol  
 Methacrylonitrile  
 Methyl bromide (Bromomethane)  
 Methyl chloride (Chloromethane)  
 Methyl ethyl ketone (MEK; 2-Butanone)  
 Methyl iodide (Iodomethane)  
 Methyl methacrylate  
 4-Methyl-2-pentanone (Methyl isobutyl ketone)  
 Methylene bromide (Dibromomethane)  
 Methylene chloride (Dichloromethane)  
 Naphthalene  
 Propionitrile (Ethyl cyanide)  
 Styrene  
 1,1,1,2-Tetrachloroethane  
 1,1,2,2-Tetrachloroethane  
 Tetrachloroethylene (Tetrachloroethene; Perchloroethylene; PCE)  
 Toluene  
 1,2,4-Trichlorobenzene  
 1,1,1 -Trichloroethane, Methylchloroform

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TABLE V

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

Continued

1,1,2-Trichloroethane  
 Trichloroethylene (Trichloroethene; TCE)  
 Trichlorofluoromethane (CFC- 11)  
 1,2,3-Trichloropropane  
 Vinyl acetate  
 Vinyl chloride (Chloroethene)  
 Xylene (total)

Semi-Volatile Organic Compounds:

USEPA Method 8270 - base, neutral, & acid extractables

Acenaphthene  
 Acenaphthylene  
 Acetophenone  
 2-Acetylaminofluorene (2-AAF)  
 Aldrin  
 4-Aminobiphenyl  
 Anthracene  
 Benzo[a]anthracene (Benzanthracene)  
 Benzo[b]fluoranthene  
 Benzo[k]fluoranthene  
 Benzo[g,h,i]perylene  
 Benzo[a]pyrene  
 Benzyl alcohol  
 Bis(2-ethylhexyl) phthalate  
 alpha-BHC  
 beta-BHC  
 delta-BHC  
 gamma-BHC (Lindane)  
 Bis(2-chloroethoxy)methane  
 Bis(2-chloroethyl) ether (Dichloroethyl ether)  
 Bis(2-chloro-1-methylethyl) ether (Bis(2-chloroisopropyl) ether; DCIP)  
 4-Bromophenyl phenyl ether  
 Butyl benzyl phthalate (Benzyl butyl phthalate)  
 Chlordane  
 p-Chloroaniline  
 Chlorobenzilate  
 p-Chloro-m-cresol (4-Chloro-3-methylphenol)  
 2-Chloronaphthalene  
 2-Chlorophenol  
 4-Chlorophenyl phenyl ether  
 Chrysene  
 o-Cresol (2-methylphenol)

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TABLE V

## CONSTITUENTS OF CONCERN &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

m-Cresol (3-methylphenol)  
p-Cresol (4-methylphenol)  
4,4'-DDD  
4,4'-DDE  
4,4'-DDT  
Diallate  
Dibenz[a,h]anthracene  
Dibenzofuran  
Di-n-butyl phthalate  
o-Dichlorobenzene (1,2-Dichlorobenzene)  
m-Dichlorobenzene (1,3-Dichlorobenzene)  
p-Dichlorobenzene (1,4-Dichlorobenzene)  
3,3'-Dichlorobenzidine  
2,4-Dichlorophenol  
2,6-Dichlorophenol  
Dieldrin  
Diethyl phthalate  
p-(Dimethylamino)azobenzene  
7,12-Dimethylbenz[a]anthracene  
3,3'-Dimethylbenzidine  
2,4-Dimethylphenol (m-Xylenol)  
Dimethyl phthalate  
m-Dinitrobenzene  
4,6-Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)  
2,4-Dinitrophenol  
2,4-Dinitrotoluene  
2,6-Dinitrotoluene  
Di-n-octyl phthalate  
Diphenylamine  
Endosulfan I  
Endosulfan II  
Endosulfan sulfate  
Endrin  
Endrin aldehyde  
Ethyl methanesulfonate  
Famphur  
Fluoranthene  
Fluorene  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Hexachlorobutadiene

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TABLE V

## CONSTITUENTS OF CONCERN &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

Hexachlorocyclopentadiene  
Hexachloroethane  
Hexachloropropene  
Indeno(1,2,3-c,d)pyrene  
Isodrin  
Isophorone  
Isosafrole  
Kepone  
Methapyrilene  
Methoxychlor  
3-Methylcholanthrene  
Methyl methanesulfonate  
2-Methylnaphthalene  
Naphthalene  
1,4-Naphthoquinone  
1-Naphthylamine  
2-Naphthylamine  
o-Nitroaniline (2-Nitroaniline)  
m-Nitroaniline (3-Nitroaniline)  
p-Nitroaniline (4-Nitroaniline)  
Nitrobenzene  
o-Nitrophenol (2-Nitrophenol)  
p-Nitrophenol (4-Nitrophenol)  
N-Nitrosodi-n-butylamine (Di-n-butylnitrosamine)  
N-Nitrosodiethylamine (Diethylnitrosamine)  
N-Nitrosodimethylamine (Dimethylnitrosamine)  
N-Nitrosodiphenylamine (Diphenylnitrosamine)  
N-Nitrosodipropylamine (N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine)  
N-Nitrosomethylethylamine (Methylethylnitrosamine)  
N-Nitrosopiperidine  
N-Nitrosopyrrolidine  
5-Nitro-o-toluidine  
Pentachlorobenzene  
Pentachloronitrobenzene (PCNB)  
Pentachlorophenol  
Phenacetin  
Phenanthrene  
Phenol  
p-Phenylenediamine  
Polychlorinated biphenyls (PCBs; Aroclors)  
Pronamide

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## TABLE V

## CONSTITUENTS OF CONCERN &amp; APPROVED USEPA ANALYTICAL METHODS

## Continued

Pyrene  
Safrole  
1,2,4,5-Tetrachlorobenzene  
2,3,4,6-Tetrachlorophenol  
o-Toluidine  
Toxaphene  
1,2,4-Trichlorobenzene  
2,4,5-Trichlorophenol  
2,4,6-Trichlorophenol  
0,0,0-Triethyl phosphorothioate  
sym-Trinitrobenzene

**Chlorophenoxy Herbicides:****USEPA Method 8150**

2,4-D (2,4-Dichlorophenoxyacetic acid)  
Dinoseb (DNBP; 2-sec-Butyl-4,6-dinitrophenol)  
Silvex (2,4,5-Trichlorophenoxypropionic acid; 2,4,5-TP)  
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)

**Organophosphorus Compounds:****USEPA Method 8141**

0,0-Diethyl 0-2-pyrazinyl phosphorothioate (Thionazin)  
Dimethoate  
Disulfoton  
Methyl parathion (Parathion methyl)  
Parathion  
Phorate

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**TABLE I**  
**GROUNDWATER DETECTION MONITORING PROGRAM**

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
<b>Field Parameters</b>		
Groundwater Elevation	Ft. & hundredths, M.S.L.	Quarterly
Temperature	°C	Quarterly
Specific Conductance	µmhos/cm	Quarterly
pH	pH units	Quarterly
Turbidity	Turbidity units	Quarterly
<b>Monitoring Parameters</b>		
Total Dissolved Solids (TDS)	mg/L	Semi-annual
Chloride	mg/L	Semi-annual
Carbonate	mg/L	Semi-annual
Bicarbonate	mg/L	Semi-annual
Nitrate - Nitrogen	mg/L	Semi-annual
Sulfate	mg/L	Semi-annual
Calcium	mg/L	Semi-annual
Magnesium	mg/L	Semi-annual
Potassium	mg/L	Semi-annual
Sodium	mg/L	Semi-annual
Volatile Organic Compounds (USEPA Methods 601/602, see Table III)	µg/L	Semi-annual
<b>Constituents of Concern (see Table IV)</b>		
Total Organic Carbon	mg/L	5 years
Inorganics (dissolved)	mg/L	5 years
Volatile Organic Compounds (USEPA Method 8260, extended list)	µg/L	5 years
Semi-Volatile Organic Compounds (USEPA Method 8270)	µg/L	5 years
Chlorophenoxy Herbicides (USEPA Method 8150)	µg/L	5 years
Organophosphorus Compounds (USEPA Method 8141)	µg/L	5 years



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**TABLE II**  
**LEACHATE DETECTION MONITORING PROGRAM**

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
<b>Field Parameters</b>		
Total Flow	Gallons	Quarterly
Flow Rate	Gallons/Day	Quarterly
Specific Conductance	µmhos/cm	Quarterly
pH	pH units	Quarterly
<b>Monitoring Parameters</b>		
Total Dissolved Solids (TDS)	mg/L	Quarterly
Chloride	mg/L	Quarterly
Sulfate	mg/L	Quarterly
Nitrate - Nitrogen	mg/L	Quarterly
Volatile Organic Compounds (USEPA Methods 601/602, see Table III)	µg/L	Quarterly
<b>Constituents of Concern (see Table IV)</b>		
Total Organic Carbon	mg/L	5 years
Carbonate	mg/L	5 years
Bicarbonate Alkalinity	mg/L	5 years
Inorganics (dissolved)	mg/L	5 years
Volatile Organic Compounds (USEPA Method 8260, extended list)	µg/L	5 years
Semi-Volatile Organic Compounds (USEPA Method 8270)	µg/L	5 years
Chlorophenoxy Herbicides (USEPA Method 8150)	µg/L	5 years
Organophosphorus Compounds (USEPA Method 8141)	µg/L	5 years

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TABLE III

## MONITORING PARAMETERS FOR DETECTION MONITORING

## Constituents included in VOC:

USEPA Methods 601 and 602 Benzene  
 Bromodichloromethane  
 Bromoform (Tribromomethane)  
 Bromomethane  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroethane (Ethyl chloride)  
 Chloroform (Trichloromethane)  
 Chloromethane  
 Dibromochloromethane (Chlorodibromomethane)  
 o-Dichlorobenzene (1,2-Dichlorobenzene)  
 1,3-Dichlorobenzene  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 Dichlorodifluoromethane  
 1,1-Dichloroethane (Ethylidene chloride)  
 1,2-Dichloroethane (Ethylene dichloride)  
 1,1 -Dichloroethylene (1,1 -Dichloroethene; Vinylidene chloride)  
 trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)  
 1,2-Dichloropropane (Propylene dichloride)  
 cis- 1,3-Dichloropropene  
 trans-1,3-Dichloropropene  
 Ethylbenzene  
 Methylene chloride (Dichloromethane)  
 1,1,2,2-Tetrachloroethane  
 Tetrachloroethylene (Tetrachloroethene; Perchloroethylene)  
 Toluene  
 1,1,1-Trichloroethane (Methylchloroform)  
 1,1,2-Trichloroethane  
 Trichloroethylene (Trichloroethene)  
 Trichlorofluoromethane (CFC- 11)  
 Vinyl chloride  
 Xylene(s)

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TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

<u>Inorganics (dissolved):</u>	<u>USEPA Method</u>
Aluminum	6010
Antimony	6010
Barium	6010
Beryllium	6010
Cadmium	6010
Chromium	6010
Cobalt	6010
Copper	6010
Silver	6010
Tin	6010
Vanadium	6010
Zinc	6010
Iron	6010
Manganese	6010
Arsenic	7061
Lead	7421
Mercury	7470
Nickel	7520
Selenium	7741
Thallium	7841
Cyanide	9010
Sulfide	9030

Volatile Organic Compounds:

USEPA Method 8260

Acetone  
 Acetonitrile (Methyl cyanide)  
 Acrolein  
 Acrylonitrile  
 Allyl chloride (3-Chloropropene)  
 Benzene  
 Bis(2-ethylhexyl) phthalate  
 Bromochloromethane (Chlorobromomethane)  
 Bromodichloromethane (Dibromochloromethane)  
 Bromoform (Tribromomethane)  
 Carbon disulfide  
 Carbon tetrachloride  
 Chlorobenzene  
 Chloroethane (Ethyl chloride)  
 Chloroform (Trichloromethane)  
 Chloroprene

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TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS  
 (Continued)

Dibromochloromethane (Chlorodibromomethane)  
 1,2-Dibromo-3-chloropropane (DBCP)  
 1,2-Dibromoethane (Ethylene dibromide; EDB)  
 o-Dichlorobenzene (1,2-Dichlorobenzene)  
 m-Dichlorobenzene (1,3-Dichlorobenzene)  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 trans- 1,4-Dichloro-2-butene  
 Dichlorodifluoromethane (CFC 12)  
 1,1 -Dichloroethane (Ethylidene chloride)  
 1,2-Dichloroethane (Ethylene dichloride)  
 1,1 -Dichloroethylene (1, 1-Dichloroethene; Vinylidene chloride)  
 cis- 1,2-Dichloroethylene (cis- 1,2-Dichloroethene)  
 trans- 1,2-Dichloroethylene (trans- 1,2-Dichloroethene)  
 1,2-Dichloropropane (Propylene dichloride)  
 1,3-Dichloropropane (Trimethylene dichloride)  
 2,2-Dichloropropane (Isopropylidene chloride)  
 1,1 -Dichloropropene  
 cis- 1,3-Dichloropropene  
 trans- 1,3-Dichloropropene  
 Ethylbenzene  
 Hexachlorobutadiene  
 2-Hexanone (Methyl butyl ketone)  
 Isobutyl alcohol  
 Isodrin  
 Methacrylonitrile  
 Methyl bromide (Bromomethane)  
 Methyl chloride (Chloromethane)  
 Methyl ethyl ketone (MEK; 2-Butanone)  
 Methyl iodide (Iodomethane)  
 Methyl methacrylate  
 4-Methyl-2-pentanone (Methyl isobutyl ketone)  
 Methylene bromide (Dibromomethane)  
 Methylene chloride (Dichloromethane)  
 Naphthalene  
 Propionitrile (Ethyl cyanide)  
 Styrene  
 1,1,1,2-Tetrachloroethane  
 1,1,2,2-Tetrachloroethane  
 Tetrachloroethylene (Tetrachloroethene; Perchloroethylene; PCE)  
 Toluene 1,2,4-Trichlorobenzene  
 1,1,1 -Trichloroethane, Methylchloroform  
 1,1,2-Trichloroethane

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TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS  
 (Continued)

Trichloroethylene (Trichloroethene; TCE)  
 Trichlorofluoromethane (CFC- 11)  
 1,2,3-Trichloropropane  
 Vinyl acetate  
 Vinyl chloride (Chloroethene)  
 Xylene (total)

Semi-Volatile Organic Compounds:

USEPA Method 8270 - base, neutral, & acid extractables

Acenaphthene  
 Acenaphthylene  
 Acetophenone  
 2-Acetylaminofluorene (2-AAF)  
 Aldrin  
 4-Aminobiphenyl  
 Anthracene  
 Benzo[a]anthracene (Benzanthracene)  
 Benzo[b]fluoranthene  
 Benzo[k]fluoranthene  
 Benzo[g,h,i]perylene  
 Benzo[a]pyrene  
 Benzyl alcohol  
 alpha-BHC  
 beta-BHC  
 delta-BHC  
 gamma-BHC (Lindane)  
 Bis(2-chloroethoxy)methane  
 Bis(2-chloroethyl) ether (Dichloroethyl ether)  
 Bis(2-chloro-1-methylethyl) ether (Bis(2-chloroisopropyl) ether; DCIP)  
 4-Bromophenyl phenyl ether  
 Butyl benzyl phthalate (Benzyl butyl phthalate)  
 Chlordane  
 p-Chloroaniline  
 Chlorobenzilate  
 p-Chloro-m-cresol (4-Chloro-3-methylphenol)  
 2-Chloronaphthalene  
 2-Chlorophenol  
 4-Chlorophenyl phenyl ether  
 Chrysene  
 o-Cresol (2-methylphenol)  
 m-Cresol (3-methylphenol)

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CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS  
 (Continued)

p-Cresol (4-methylphenol)  
 4,4'-DDD  
 4,4'-DDE  
 4,4'-DDT  
 Diallate  
 Dibenz[a,h]anthracene  
 Dibenzofuran  
 Di-n-butyl phthalate  
 o-Dichlorobenzene (1,2-Dichlorobenzene)  
 m-Dichlorobenzene (1,3-Dichlorobenzene)  
 p-Dichlorobenzene (1,4-Dichlorobenzene)  
 3,3'-Dichlorobenzidine  
 2,4-Dichlorophenol  
 2,6-Dichlorophenol  
 Dieldrin  
 Diethyl phthalate  
 p-(Dimethylamino)azobenzene  
 7,12-Dimethylbenz[a]anthracene  
 3,3'-Dimethylbenzidine  
 2,4-Dimethylphenol (m-Xylenol)  
 Dimethyl phthalate  
 m-Dinitrobenzene  
 4,6-Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)  
 2,4-Dinitrophenol  
 2,4-Dinitrotoluene  
 2,6-Dinitrotoluene  
 Di-n-octyl phthalate  
 Diphenylamine  
 Endosulfan I  
 Endosulfan II  
 Endosulfan sulfate  
 Endrin  
 Endrin aldehyde  
 Ethyl methacrylate  
 Ethyl methanesulfonate  
 Famphur  
 Fluoranthene  
 Fluorene  
 Heptachlor  
 Heptachlor epoxide  
 Hexachlorobenzene  
 Hexachlorobutadiene

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**TABLE IV**  
**CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS**  
**(Continued)**

Hexachlorocyclopentadiene  
 Hexachloroethane  
 Hexachloropropene  
 Indeno(1,2,3-c,d)pyrene  
 Isophorone  
 Isosafrole  
 Kepone  
 Methapyrilene  
 Methoxychlor  
 3-Methylcholanthrene  
 Methyl methanesulfonate  
 2-Methylnaphthalene  
 Naphthalene  
 1,4-Naphthoquinone  
 1-Naphthylamine  
 2-Naphthylamine  
 o-Nitroaniline (2-Nitroaniline)  
 m-Nitroaniline (3-Nitroaniline)  
 p-Nitroaniline (4-Nitroaniline)  
 Nitrobenzene  
 o-Nitrophenol (2-Nitrophenol)  
 p-Nitrophenol (4-Nitrophenol)  
 N-Nitrosodi-n-butylamine (Di-n-butylnitrosamine)  
 N-Nitrosodiethylamine (Diethylnitrosamine)  
 N-Nitrosodimethylamine (Dimethylnitrosamine)  
 N-Nitrosodiphenylamine (Diphenylnitrosamine)  
 N-Nitrosodipropylamine (N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine)  
 N-Nitrosomethylethylamine (Methylethylnitrosamine)  
 N-Nitrosopiperidine  
 N-Nitrosopyrrolidine  
 5-Nitro-o-toluidine  
 Pentachlorobenzene  
 Pentachloronitrobenzene (PCNB)  
 Pentachlorophenol  
 Phenacetin  
 Phenanthrene  
 Phenol  
 p-Phenylenediamine  
 Polychlorinated biphenyls (PCBs; Aroclors)  
 Pronamide  
 Pyrene  
 Safrole

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TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS  
(Continued)

1,2,4,5-Tetrachlorobenzene  
2,3,4,6-Tetrachlorophenol  
o-Toluidine  
Toxaphene  
1,2,4-Trichlorobenzene  
2,4,5-Trichlorophenol  
1,2,4,6-Trichlorophenol  
0,0,0-Triethyl phosphorothioate  
sym-Trinitrobenzene

**Chlorophenoxy Herbicides:**

**USEPA Method 8150**

2,4-D (2,4-Dichlorophenoxyacetic acid)  
Dinoseb (DNBP; 2-sec-Butyl-4,6-dinitrophenol)  
Silvex (2,4,5-Trichlorophenoxypropionic acid; 2,4,5-TP)  
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)

**Organophosphorus Compounds:**

**USEPA Method 8141**

0,0-Diethyl 0-2-pyrazinyl phosphorothioate (Thionazin)  
Dimethoate  
Disulfoton  
Methyl parathion (Parathion methyl)  
Parathion  
Phorate