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[TENTATIVE] MONITORING & REPORTING PROGRAM R5-2020-####

ORDER INFORMATION

Order Type(s):	Monitoring & Reporting Program (MRP)
Status:	TENTATIVE
Program:	Title 27
Region 5 Office:	Fresno
Discharger(s):	Kings Waste & Recycling Authority
Facility:	Corcoran Landfill
Address:	Southeast of the intersection of Nevada Avenue & SR 43
County:	Kings County
Parcel Nos.:	034-011-023-000
WDID:	5D160302001
Prior Order(s):	R5-2014-0164, 5-00-159, 92-198, 74-108

CERTIFICATION

I, PATRICK PULUPA, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Central Valley Region, on _____ December 2020.

_____
PATRICK PULUPA,
Executive Officer

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GLOSSARY

AMR ..... Annual Monitoring Report

CalRecycle ..... California Department of Resources Recycling and Recovery

CAMP ..... Corrective Action Monitoring Program

C.F.R. ..... Code of Federal Regulations

CIWQS ..... California Integrated Water Quality System Project

COCs ..... Constituents of Concern

DMP ..... Detection Monitoring Program

DWR ..... California Department of Water Resources

EC ..... Electrical Conductivity

ELAP ..... State Water Board's Environmental Laboratory Accreditation Program (formerly administered by California Department of Public Health)

EMP ..... Evaluation Monitoring Program

EW ..... Extraction Well

Five-Year COCs ..... Five-Year Constituents of Concern

GeoTracker ..... State Water Board's Data Management System for Sites with Potential Groundwater Impact

GP ..... Gas Probe

LCRS ..... Leachate Collection and Removal System

LF ..... Landfill

LFG ..... Landfill Gas

MDL ..... Method Detection Limit

Method TO-15 VOCs.....Volatile Organic Compounds associated with USEPA Method TO-15

MRP .....Monitoring and Reporting Program

MSW .....Municipal Solid Waste

MSWLF .....Municipal Solid Waste Landfill

N/A .....Not Applicable

PID .....Photo Ionization Detector

POC .....Point of Compliance for Water Quality Protection Standard

QA/QC .....Quality Assurance/Quality Control

Qualified Professional .....Professional Civil Engineer or Geologist licensed by the State of California

RCRA.....Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq.

RL .....Reporting Limit

ROWD / JTD .....Report of Waste Discharge / Joint Technical Document

SCAP .....Sample Collection and Analysis Plan

SGP.....Soil Pore Gas

SI.....Surface Impoundment

SMR .....Semiannual Monitoring Report

SPRRs / Standard Provisions ...*Standard Provisions and Reporting Requirements for Nonhazardous Solid Waste Discharges Regulated by Subtitle D and/or Title 27 Municipal Solid Waste Facilities*, December 2015 Edition

TDS .....Total Dissolved Solids

Title 27.....California Code of Regulations, Title 27

USEPA.....United States Environmental Protection Agency

VOCs .....Volatile Organic Compounds

WDRs.....Waste Discharge Requirements

WMU .....Waste Management Unit

WQPS .....Water Quality Protection Standard

UNITS

ft^3 / min .....Cubic Feet per Minute

°F .....Degrees Fahrenheit

Gallons/Day .....Gallons per Day

mg/L.....Milligrams per Liter

µg/L.....Micrograms per Liter

µmhos/cm .....Microsiemens per Centimeter

$\mu g/cm^3$ .....Micrograms per Cubic Centimeter

NTUs.....Nephelometric Turbidity Units

% Vol. .....Percent by Volume

Inches Hg .....Inches of Mercury (Barometric Pressure)

MM Hg Vacuum .....Millimeters of Mercury (Barometric Pressure)

PREFACE

Adopted by the California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) pursuant to Water Code section 13267, subdivision (b)(1), this Order establishes a Monitoring and Reporting Program (MRP) for the Kings Waste & Recycling Authority (Discharger), which owns the Corcoran Landfill (Facility) in Kings County. Additional information regarding the Facility is set forth in the enumerated findings of Waste Discharge Requirements Order R5-2020-#### (WDRs Order). Except as otherwise provided in the following MRP, these findings are incorporated herein.

The MRP also contains supplemental findings related to monitoring and reporting activities, and/or Facility conditions. For the purposes of California Code of Regulations, title 27 (Title 27) (e.g., §§ 21720, 20380-20435), the findings and provisions of this Order are conversely incorporated as part of the WDRs Order as well.

Although adopted with the WDRs Order, this is a separate order subject to subsequent revision by the Executive Officer in accordance with delegated authority per Water Code section 13223. For the purposes of Title 27, such revisions shall be automatically incorporated as part of the WDRs Order.

MONITORING & REPORTING PROGRAM

IT IS HEREBY ORDERED, pursuant to Water Code section 13267: that all previously issued Monitoring and Reporting Program(s) for the discharge of solid waste at the Facility are rescinded (except for enforcement purposes); and that the Discharger, their agents, employees and successors shall comply with the following Monitoring and Reporting Program (MRP). The Discharger shall not implement any changes until a revised MRP is issued by the Central Valley Water Board or its Executive Officer.

A. General Provisions

1. **Incorporation of Standard Provisions**—The Discharger shall comply with all relevant provisions of the *Standard Provisions and Reporting Requirements for Nonhazardous Solid Waste Discharges Regulated by Subtitle D and/or Title 27 Municipal Solid Waste Facilities, December 2015 Edition* (SPRRs or Standard Provisions), which are incorporated herein. See, e.g., SPRRs section I (*Standard Monitoring Specifications*) and section J (*Response to Release*).

2. **Monitoring Provisions in WDRs Order**—The Discharger shall comply with all "Monitoring Provisions" in the Facility's operative Title 27 WDRs Order, which are also incorporated herein.

3. **Compliance with Title 27**—The Discharger shall comply with all of Title 27 provisions as they pertain to activities described in this MRP (including SPRRs).

4. **Sample Collection and Analysis Plan (SCAP)**—All samples shall be collected, preserved and transported in accordance with the approved Sample Collection and Analysis Plan (SCAP) and the Quality Assurance/Quality Control (QA/QC) standards specified therein. The Discharger may use alternative analytical test methods (including new USEPA-approved methods), provided that the alternative methods have method detection limits (MDLs) equal to or lower than the analytical methods specified in this MRP and are identified in the approved SCAP.

B. Corrective Action & Detection Monitoring Program —To detect a release at the earliest possible time (see Title 27, § 20420, subd. (b)), the Discharger shall implement a Detection Monitoring Program (DMP) for groundwater and the unsaturated zone in accordance with the provisions of Title 27, particularly sections 20415 and 20420. Groundwater[1] detection monitoring networks shall be revised (as needed). Additionally, to also demonstrate the effectiveness of ongoing correction action at the Facility, the Discharger shall perform the following monitoring in accordance with of subdivision (d) of Title 27, section 20430.

1. Groundwater

a. Required Network—The Facility's groundwater monitoring well network consists of the wells listed in **Table 1**.[2] As of the date of this Order, the network meets the requirements of Title 27. (Title 27, § 20415, subd. (b).)

Table 1—Groundwater Monitoring Network

Well	Program	Point of Compliance (WQPS)	Status
MW-1	Corrective Action	No	Operational
MW-2	Corrective Action	No	Operational
MW-3	Detection, Corrective Action	Yes	Operational
MW-4	Background	No	Operational
MW-5	Corrective Action	No	Operational
MW-6	Corrective Action	No	Operational
MW-7	Corrective Action	No	Operational
90-1	Background	No	Operational
VMW-1	Detection, Corrective Action	Yes	Operational
VMW-2	Corrective Action	No	Operational
GWMW-1	Detection, Corrective Action	Yes	Inactive
GWMW-2	Detection, Corrective Action	Yes	Inactive
GWMW-3	Corrective Action	No	Inactive
GWMW-4	Corrective Action	No	Inactive

[1] I.e., to the extent that surface water detection monitoring is required under this Order.

[2] Non-background monitoring wells at the Point of Compliance constitute "Monitoring Points" for purposes of the Water Quality Protection Standard (WQPS).

See Glossary for definitions of terms and abbreviations in table.

b. **Sample Collection and Analysis**—Groundwater samples shall be collected from each well and analyzed for Monitoring Parameters listed in **Table 2** (*Physical Parameters*) and **Table 3** (*Constituent Parameters*), in accordance with the specified schedule for each parameter. (Title 27, § 20420, subds. (e)-(f).)

Table 2—Groundwater Monitoring, Physical Parameters

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Temperature	TEMP	°F	Semiannually	Semiannually
Electrical Conductivity	SC	µmhos/cm	Semiannually	Semiannually
pH	PH	pH Units	Semiannually	Semiannually
Turbidity	TURB	NTUs	Semiannually	Semiannually

See Glossary for definitions of terms and abbreviations in table.

Table 3—Groundwater Monitoring, Constituent Parameters

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
TDS	TDS	mg/L	Semiannually	Semiannually
Chloride	CL	mg/L	Semiannually	Semiannually
Carbonate	CACO3	mg/L	Semiannually	Semiannually
Bicarbonate	BICACO3	mg/L	Semiannually	Semiannually
Sulfate	SO4	mg/L	Semiannually	Semiannually
Calcium	CA	mg/L	Semiannually	Semiannually
Magnesium	MG	mg/L	Semiannually	Semiannually
Potassium	K	mg/L	Semiannually	Semiannually
Sodium	NA	mg/L	Semiannually	Semiannually
Short List VOCs (Attachment A)	(*various*)	µg/L	Semiannually	Semiannually
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	ng/L	Semiannually	Semiannually

See Glossary for definitions of terms and abbreviations in table.

c. **Five-Year COCs**—The Discharger shall analyze for groundwater samples from each well for the Five-Year Constituents of Concern (Five-Year COCs) listed in **Table 4**. Five-Year COCs were last

monitored in 2015, and shall be analyzed again in 2020. (Title 27, § 20420, subd. (g).)

Table 4—Groundwater Monitoring, Five-Year COCs

Five-Year Constituent	GeoTracker Code	Units	Sampling & Reporting Freq.
Total Organic Carbon	TOC	mg/L	Every 5 Years
Dissolved Inorganics (Attachment B)	(*various*)	µg/L	Every 5 Years
Extended List VOCs (Attachment C)	(*various*)	µg/L	Every 5 Years
Semi-Volatile Organic Compounds (Attachment D)	(*various*)	µg/L	Every 5 Years
Chlorophenoxy Herbicides (Attachment E)	(*various*)	µg/L	Every 5 Years
Organophosphorus Compounds (Attachment F)	(*various*)	µg/L	Every 5 Years

See Glossary for definitions of terms and abbreviations in table.

d. **Groundwater Conditions**—Each quarter, the Discharger shall monitor the Groundwater Conditions specified in **Table 5**, with the result of such monitoring being reported semiannually per **Section D.1**.[3] (Title 27, § 20415, subd. (b)(1).)

Table 5—Groundwater Monitoring, Groundwater Conditions

Groundwater Condition	GeoTracker Code	Monitoring Freq.	Reporting Freq.
Elevation (Well-Specific)	ELEV	Quarterly	Semiannually
Gradient	(*none*)	Quarterly	Semiannually
Flow Rate	(*none*)	Quarterly	Semiannually

[3] To the extent feasible, this information shall be determined separately for: (1) the uppermost aquifer; (2) any zones of perched water; and (3) any additional zone of saturation monitored based upon water level elevations taken prior to the collection of the water quality data submitted in the report. (Title 27, § 20415, subd. (e)(15).)

2. Unsaturated Zone

a. Required Network—The Facility's unsaturated zone monitoring network consists of the landfill gas monitoring points specified in **Table 6**. As of the date of this Order, the network meets the requirements of Title 27. (Title 27, § 20415, subd. (d).)

Table 6—Unsaturated Zone Monitoring Network

Monitoring Point	Program	Status
LFG-1	Detection, Corrective Action	Operational
LFG-2	Detection, Corrective Action	Operational
LFG-3	Detection, Corrective Action	Operational
LFG-4	Detection, Corrective Action	Operational

See Glossary for definitions of terms and abbreviations in table.

b. Soil Pore Gas (SPG) Monitoring—Soil Pore Gas (SPG) shall be monitored for Methane and Method TO-15 VOCs[4] in accordance with **Table 7**, provided that samples may be prescreened to determine if such analyses will be required.[5] (Title 27, § 20420, subds. (e)-(f).)

Table 7—Unsaturated Zone Monitoring (Soil Pore Gas), Constituent Parameters

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Method TO-15 VOCs	(*various*)	µg/cm^3	Annually	Annually
Methane	CH4	%	Semiannually	Semiannually

See Glossary for definitions of terms and abbreviations in table.

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[4] Volatile Organic Compounds associated with USEPA Method TO-15.

[5] A gas analyzer for methane concentrations or a Photo Ionization Detector (PID) for total VOCs concentrations may be used. If methane concentrations exceed 1 percent by volume OR organic vapors (total VOCs) exceed 1 ppm, a gas sample shall be obtained and analyzed for VOCs using Method TO-15. Both the screening results and lab analysis results shall be reported. Otherwise, the methane or total VOC screening results shall be reported, and no further lab analysis will be required.

3. **Summary of Water Quality Protection Standard (WQPS) Components**—The Water Quality Protection Standard (WQPS) is the Title 27 analytical framework through which an individual WMU is monitored for releases and impacts to water quality, i.e., the Detection Monitoring Program (DMP). (See Title 27, § 20390, subd. (a).) As explained in further detail below, for the duration of the *Compliance Period*, the *Monitoring Points* situated at a WMU's *Point of Compliance* are sampled and analyzed for *Monitoring Parameters* indicative of a release. If concentrations of *Constituents of Concern* exceed *Concentration Limits*, the results are confirmed through *Retesting Procedures*.

   a. **Compliance Period**—The "compliance period" is the minimum time for which a water quality monitoring will be required—i.e., equal to the sum of active years and the closure period. (Title 27, § 20410.) The period restarts each time an Evaluation Monitoring Program (EMP) is initiated for a given WMU. (*Id*., §§ 20410(a), 20415, 20425.) If a WMU is in corrective action, the period continues until it is demonstrated that the WMU has been in continuous compliance with its WQPS for at least three years. (*Id*., § 20410, subd. (c).)

   b. **Monitoring Points**—For WQPS purposes, a "monitoring point" is any well, device, or location where monitoring is conducted, and is specified in the Facility's WDRs and subject to the WQPS. (Title 27, § 20164.) Monitoring Points are listed in **Section B** (*Detection Monitoring Program*)—specifically **Table 1** (*Groundwater*) and Table 6 (*Unsaturated Zone*).

   c. **Point of Compliance (POC)**—The Point of Compliance (POC) is a vertical plane at the WMU's hydraulically downgradient limit, extending through the uppermost underlying aquifer. (Title 27, §§ 10164, 20405(a).) The Facility's POC monitoring wells are listed below in **Table 1**.

   d. **Constituents of Concern (COCs)**—Constituents of Concern (COCs) are waste constituents, reaction products, and hazardous constituents that are reasonably expected to be in or derived from waste contained in a WMU. (Title 27, §§ 20164, 20395.)

   e. **Monitoring Parameters**—Monitoring Parameters are a predetermined set of COCs and measurable physical characteristics (e.g., temp., electrical conductivity, pH), which serve as reliable indicators of a WMU release, and for which samples will

therefore be routinely analyzed. (Title 27, §§ 20164, 20395(a), 20420(e)-(f).) For the purposes of this MRP, the Monitoring Parameters are:

i. For **Groundwater**, those in Table 2 and Table 3; and

f. **Five-Year COCs**—In addition to the Monitoring Parameters described above, this Order requires the *quinquennial analysis* of samples for a larger range of constituents that are reasonably expected to be found in, or derived from, the waste contained within each unit at the Facility. (Title 27, §§ 20395, 20420(g).) Analytical results for Five-Year COCs were last submitted to the Central Valley Water Board as part of the 2015 Annual Monitoring Report and are due again in 2020. For the purposes of this MRP, the Five-Year COCs are listed in:

i. **Attachment B** (*Dissolved Inorganics*);

ii. **Attachment C** (*Extended List VOCs*);

iii. **Attachment D** (*Semi-Volatile Organic Compounds*);

iv. **Attachment E** (*Chlorophenoxy Herbicides*);

v. **Attachment F** (*Organophosphorus Compounds*); and

vi. Any other COCs listed in **Table 4** (*Groundwater*)

g. **Concentration Limits**—The Concentration Limit for each COC is the "background concentration," as determined by the statistical methods outlined in subdivision (e)(8) of Title 27, section 20415.[6] (Title 27, § 20400, subds. (a), (b).) Methods for calculating Concentration Limits were proposed in the most recently approved WQPS Report. The approved methods use interwell tolerance limits.

Concentration Limits shall be proposed and/or updated by the Discharger on an annual basis, in the Annual Monitoring Report (AMR) submitted per **Section D.2** here. Unless expressly rejected

[6] Concentration Limits are initially proposed by the discharger, then reviewed and approved by the Central Valley Water Board (subject to any necessary revisions). The limits specified herein are approved and incorporated as part of the Facility's WDRs.

by the Executive Officer in writing, these Concentration Limits shall be incorporated as part of this Order.

h. **Retesting Procedures**—If monitoring results indicate measurably significant evidence of a release, as described in Section I.45 of the SPRRs (*Standard Monitoring Specifications*), the Discharger shall apply the following:

i. **Non-Statistical Retesting Procedures (SPRRs, § I.46)** for analytes detected in less than 10 percent of background samples (e.g., non-naturally occurring COCs); and

ii. **Statistical Retesting Procedures (SPRRs, § I.46)** for analytes detected in at least 10 percent of background samples (e.g., naturally occurring COCs).

C. Additional Facility Monitoring

1. **Leachate Seepage**—Leachate that seeps to the surface from any landfill WMU shall, immediately upon detection, be sampled and analyzed for the Monitoring Parameters in **Table 8** (*Physical Parameters*) and **Table 9** (*Constituent Parameters*). See **Section D.3** for Reporting Requirements.) In the event of a reported leachate seep, Central Valley Water Board staff may direct additional sampling and analysis pursuant to Water Code section 13267, subdivision (b)(1).

Table 8—Leachate Seep Monitoring, Physical Parameters

Physical Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
Total Flow	(none)	Gallons	Upon Detection	See MRP, § D.3
Flow Rate	FLOW	Gallons/Day	(*same*)	(*same*)
Electrical Conductivity	SC	µmhos/cm	(*same*)	(*same*)
pH	PH	pH Units	(*same*)	(*same*)

See Glossary for definitions of terms and abbreviations in table.

Table 9—Leachate Seep Monitoring, Constituent Parameters

Constituent Parameter	GeoTracker Code	Units	Sampling Freq.	Reporting Freq.
TDS	TDS	mg/L	Upon Detection	See MRP, § D.3
Chloride	CL	mg/L	(*same*)	(*same*)
Carbonate	CACO3	mg/L	(*same*)	(*same*)
Bicarbonate	BICACO3	mg/L	(*same*)	(*same*)
Nitrate as N	NO3N	mg/L	(*same*)	(*same*)
Sulfate	SO4	mg/L	(*same*)	(*same*)
Calcium	CA	mg/L	(*same*)	(*same*)
Magnesium	MG	mg/L	(*same*)	(*same*)
Potassium	K	mg/L	(*same*)	(*same*)
Sodium	NA	mg/L	(*same*)	(*same*)
Short List VOCs (Attachment A)	(various)	µg/L	(*same*)	(*same*)
1,2,3-Trichloropropane per Method SRL-524M-TCP	TCPR123	ng/L	(*same*)	(*same*)

See Glossary for definitions of terms and abbreviations in table.

2. **Regular Visual Inspection**—The Discharger shall perform regular visual inspections at the Facility in accordance with **Table 10** (*Criteria*) and **Table 11** (*Schedule*). Results of these regular visual inspections shall be included in Semiannual Monitoring Reports per **Section D.1**.

Table 10—Criteria for Regular Visual Inspections

Category	Criteria
Within Unit	Evidence of ponded water at any point on unit outside of any contact storm water/leachate diversions structures on the active face of unit (record affected areas on map). Evidence of erosion and/or of day-lighted refuse.
Unit Perimeter	Evidence of leachate seep and estimated size of affected area (record on map) and flow rate. Evidence of erosion and/or of day-lighted refuse.
Receiving Waters	Floating and suspended materials of waste origin—presence or absence, source and size of affected areas. Discoloration and turbidity—description of color, source and size of affected areas.

Table 11—Regular Visual Inspection Schedule

Category	Wet Season (1 Oct. to 30 April)	Dry Season (1 May to 30 Sept.)
Inactive or Closed Units	Monthly	Quarterly

3. **Annual Facility Inspections**—Prior to **30 September** of each year, the Discharger shall inspect the Facility to assess repair and maintenance needs for drainage control systems, cover systems and groundwater monitoring wells; and preparedness for winter conditions (e.g., erosion and sedimentation control). If repairs are made as result of the annual inspection, problem areas shall be photographed before and after repairs. Any necessary construction, maintenance, or repairs shall be completed by 31 October. See **Section D.4** for Reporting Requirements.

4. **Major Storm Events**—Within **seven days** of any storm event capable of causing damage or significant erosion (Major Storm Event), the Discharger shall inspect the Facility for damage to any precipitation, diversion and drainage facilities, and all landfill side slopes. Necessary repairs shall be completed within 30 days of the inspection. the Discharger shall take photos of any problem areas before and after repairs. See **Section D.5** for Reporting Requirements.

5. **Five-Year Iso-Settlement Surveys (Closed Landfills)**—Every five years, the Discharger shall conduct an iso-settlement survey of each closed landfill unit and produce an iso-settlement map accurately depicting the estimated total change in elevation of each portion of the final cover's low-hydraulic-conductivity layer. For each portion of the landfill, this map shall show the total lowering of the surface elevation of the final cover, relative to the baseline topographic map. (Title 27, § 21090, subd. (e)(1)-(2).) See **Section D.6** for Reporting Requirements.

D. Reporting Requirements

Table 12—Summary of Required Reports

Section	Report	Deadline
§ D.1	*Semiannual Monitoring Reports (SMRs)*	**1 August** (1 January to 30 June) **1 February** (1 July to 31 December)
§ D.2	*Annual Monitoring Reports (AMRs)*	**1 February**
§ D.3	*Leachate Seep Reporting*	**Immediately upon Discovery of Seepage** (*staff notification*) **Within 7 Days** (*written report*)
§ D.4	*Annual Facility Inspection Reports*	**15 November**
§ D.5	*Major Storm Reporting*	**Immediately after Damage Discovery** (*staff notification*) **Within 14 Days of Completing Repairs** (*written report, photos*)
§ D.6	*Survey and Iso-Settlement Mapping*	**Every Five Years** (Next Due in 2025)
§ D.7	*Financial Assurances Reports*	**1 June**
§ D.8	*Water Quality Protection Standard Reports*	**Proposed Revisions** (excluding Concentration Limits)

1. **Semiannual Monitoring Reports (SMRs)**—The Discharger shall submit Semiannual Monitoring Reports (SMRs) on **1 August** (1 Jan. to 30 June) and **1 February** (1 July to 31 Dec.). SMRs shall contain the following materials and information:

   a. A statement affirming that all sampling activities referenced in the report were conducted in accordance with the approved SCAP (see § A.4).

   b. Map(s)/aerial photograph(s) depicting locations of all observation stations, monitoring points referenced in the report.

   c. In tabulated format, all monitoring data required to be reported on a semiannual basis, including Groundwater Conditions and Monitoring Parameters. (See Section D.9.b for additional requirements.)

   d. For each groundwater monitoring point referenced in the SMR:

      i. The times each water level measurement was taken;

      ii. The type of pump or other device used to purge and elevate pump intake level relative to screening interval;

      iii. The purging methods used to stabilize water in the well bore before sampling (including pumping rate);

      iv. The equipment and methods used for monitoring pH, temperature and electrical conductivity (EC) during purging activity, and the results of such monitoring;

      v. Methods for disposing of purged water; and

      vi. The type of device used for sampling, if different than the one used for purging.

   e. Evaluation of concentrations for all Constituent Parameters and Five-Year COCs (when analyzed), comparison to current Concentration Limits, and results of any Retesting Procedures per Section B.3.h.

   f. In the event of a verified exceedance of Concentration Limit(s), any actions taken per Section J of the SPRRs (*Response to Release*) for wells and/or constituents not already specifically addressed in Corrective Action Monitoring under this MRP.

g. Evaluation as to effectiveness of existing leachate monitoring and control facilities, and runoff/run-on control facilities.

h. Summaries of all Regular Visual Inspections conducted per Section C.2 during the reporting period.

i. For closed landfills, summaries of inspections, leak searches and final cover repairs conducted in accordance with an approved Post-Closure Maintenance Plan per Standard Provisions G.26-29 (*Standard Closure and Post-Closure Maintenance Specifications*).

j. Laboratory statements of results of all analyses evaluating compliance with the WDRs.

2. Annual Monitoring Reports (AMRs)—On **1 February** of each year,[7] the Discharger shall submit an Annual Monitoring Report (AMR) containing following materials and information:

a. In tabulated format, all monitoring data for which annual reporting is required under this MRP. (See Section D.9.b for additional requirements for monitoring reports.)

b. Graphs of historical trends for all Monitoring Parameters and Five-Year COCs (if such analyses were performed) with respect to each monitoring point over the five prior calendar years.[8]

c. An evaluation of Monitoring Parameters with regard to the cation/anion balance, and graphical presentation of same in a Stiff diagram, Piper graph or Schoeller plot.

d. All historical monitoring data for which there are detectable results, including data for the previous year, shall be submitted in tabular form in a digital file.

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[7] The Annual Monitoring Report may be combined with the Semiannual Monitoring Report for 1 July through 31 December of the same year, provided that the combination is clearly indicated in the title.

[8] Each graph shall contain individual data points (not mean values) and be appropriately scaled to accurately depict statistically significant trends or variations in water quality.

e. For each groundwater well, quarterly hydrographs showing the elevation of groundwater with respect to the top and bottom of the screened interval, and the elevation of the pump intake,

f. A comprehensive discussion of the Facility's compliance record, and the result of any corrective actions taken or planned which may be needed to attain full compliance with the WDRs.

g. A summary of the monitoring results, indicating any changes made or observed since the previous AMR.

h. Annual updates to the Concentration Limits for all Monitoring Parameters and WQPS Monitoring Points, in accordance with Section B.3.g of this Order.

i. To assess the progress of ongoing Corrective Action at the Facility, the following: the total of VOCs in groundwater during each monitoring event.

3. **Leachate Seep Reporting**—Upon discovery of seepage from any disposal area within the Facility, the Discharger shall i**mmediately notify** the Central Valley Water Board via telephone or email; and **within seven days**, submit a written report with the following information:

a. Map(s) depicting the location(s) of seepage;

b. Estimated flow rate(s);

c. A description of the nature of the discharge (e.g., all pertinent observations and analyses);

d. Verification that samples have been submitted for analyses of the Monitoring Parameters in Table 8 (*Physical Parameters*) and Table 9 (*Constituent Parameters*), and an estimated date that the results will be submitted to the Central Valley Water Board; and

e. Corrective measures underway or proposed, and corresponding time schedule.

4. **Annual Facility Inspection Report**—By **15 November**, the Discharger shall submit a report with results of the Annual Facility Inspection per **Section C.3**. The report shall discuss any repair measures implemented,

any preparations for winter, and include photographs of any problem areas and repairs.

5. **Major Storm Event Reports**—Immediately following each post-storm inspection described in **Section C.4**, the Discharger shall notify Central Valley Water Board staff of any damage or significant erosion (upon discovery). Subsequent repairs shall be reported to the Central Valley Water Board (together with before and after photos of the repaired areas) **within 14 days** of completion.

6. **Survey and Iso-Settlement Map (Closed Landfill Units)**—The Discharger shall submit all iso settlement maps prepared in accordance with **Section C.5**. (Title 27, § 21090, subd. (e).)

7. **Financial Assurances Report**—By **1 June** of each year, the Discharger shall submit a copy of the annual financial assurances report due to the California Department of Resources Recycling and Recovery (CalRecycle) that updates the financial assurances for closure, post-closure maintenance, and corrective action. (See WDRs Order.)

8. **Water Quality Protection Standard Report**—Any proposed changes[9] to the Water Quality Protection Standard (WQPS) components (§ B.3), other than periodic update of the Concentration Limits (§ B.3.g), shall be submitted in a WQPS Report for review and approval. The report shall be certified by a "Qualified Professional" (§ B), and contain the following:

    a. *Potentially Affected Waterbodies*—An identification of all distinct bodies of surface water and groundwater potentially affected by a WMU release (including, but not limited to, the uppermost aquifer and any permanent or ephemeral zones of perched groundwater underlying the Facility);

[9] If subsequent sampling of the background monitoring point(s) indicates significant water quality changes due to either seasonal fluctuations or other reasons unrelated to onsite waste management activities, the Discharger may request modification of the WQPS.

b. *Map of Monitoring Points*—A map of all groundwater, surface water[10] and unsaturated zone monitoring points (including all background/upgradient and Point of Compliance monitoring points);

c. *Groundwater Movement*—An evaluation of perennial direction(s) of groundwater movement within the uppermost zone(s);

d. *Statistical Method for Concentration Limits*—A proposed statistical method for calculating Concentration Limits for Monitoring Parameters and Five-Year COCs (see § B.3.f) detected in at least 10 percent of the background data (naturally-occurring constituents) using a statistical procedure from subdivisions (e)(8)(A)-(D) or (e)(8)(E) of Title 27, section 20415; and

e. *Retesting Procedure*—A retesting procedure to confirm or deny measurably significant evidence of a release (Title 27, §§ 20415(e)(8)(E), 20420(j)(1)-(3)).

9. General Reporting Provisions

a. Transmittal Letters—Each report submitted under this MRP shall be accompanied by a Transmittal Letter providing a brief overview of the enclosed report, as well as the following:

i. Any violations found since the last report was submitted, a description of all actions undertaken to correct the violation (referencing any previously submitted time schedules for compliance), and whether the violations were corrected; and

ii. A statement from the submitting party, or its authorized agent, signed under penalty of perjury, certifying that, to the best of the signer's knowledge, the contents of the enclosed report are true, accurate and complete.

b. Monitoring Data and Reports

i. Electronic Submission via GeoTracker—All reports with monitoring data (e.g., SMRs and AMRs) shall be submitted electronically via the State Water Board's Geotracker Database (https://geotracker.waterboards.ca.gov). After

[10] To the extent that surface water monitoring is included in the Detection Monitoring Program.

uploading a report, the Discharger shall notify Central Valley Water Board staff via email at centralvalleyfresno@waterboards.ca.gov. The following information shall be included in the body of the email:

Attention:	Title 27 Unit
Report Title:	[Title of Report]
GeoTracker Upload ID:	[Identification Number]
Facility Name:	Corcoran Landfill
County:	Kings County
WDID:	5D160302001

ii. **Data Presentation and Formatting**—In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and the units are readily discernible. Additionally, data shall be summarized in a manner that clearly illustrates compliance/noncompliance with WDRs.

iii. **Non-Detections / Reporting Limits**—Unless the reporting limits (RL) are specified in the same table, non-detections and sub-RL concentrations shall be reported as "**< [limit]**" (e.g., "< 5 µg/L").

iv. **Units**—Absent specific justification, all monitoring data shall be reported in the units specified herein.

c. **Compliance with SPRRs**—All reports submitted under this MRP shall comply with applicable provisions of the SPRRs, including those in Section I (*Standard Monitoring Specifications*) and Section J (*Response to Release*).

d. **Additional Requirements for Monitoring Reports**—Every monitoring report submitted under this MRP (e.g., SMRs [§ D.1], AMRs [§ D.2]) shall include a discussion of relevant field and laboratory tests, and the results of all monitoring conducted at the site shall be reported to the Central Valley Water Board in accordance with the reporting schedule above for the calendar period in which samples were taken or observations made.

E. **Record Retention Requirements**—The Discharger shall maintain permanent records of all monitoring information, including without limitation: calibration and maintenance records; original strip chart recordings of continuous monitoring instrumentation; copies of all reports required by this MRP; and records of all

data used to complete the application for WDRs. Such records shall be legible, and show the following for each sample:

1. Sample identification and the monitoring point or background monitoring point from which it was taken, along with the identity of the individual who obtained the sample;

2. Date, time and manner of sampling;

3. Date and time that analyses were started and completed, and the name of the personnel and laboratory performing each analysis;

4. A complete list of procedures used (including method of preserving the sample, and the identity and volumes of reagents used);

5. A calculation of results; and

6. The results of all analyses, as well as the MDL and PQL for each analysis (all peaks shall be reported).

LIST OF ATTACHMENTS

Attachment A—Volatile Organic Compounds, Short-List
Attachment B—Dissolved Inorganics (Five-Year COCs)
Attachment C—Volatile Organic Compounds, Extended List (Five-Year COCs)
Attachment D—Semi-Volatile Organic Compounds (Five-Year COCs)
Attachment E—Chlorophenoxy Herbicides (Five-Year COCs)
Attachment F—OrganoPhosphorous Compounds (Five-Year COCs)

ENFORCEMENT

If, in the opinion of the Executive Officer, the Discharger fail to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to $10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Central Valley Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board website (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A—VOLATILE ORGANIC COMPOUNDS, SHORT-LIST

USEPA Method 8260B

Constituent	GeoTracker Code
Acetone	ACE
Acrylonitrile	ACRAMD
Benzene	BZ
Bromochloromethane	BRCLME
Bromodichloromethane	BDCME
Bromoform (Tribromomethane)	TBME
Carbon disulfide	CDS
Carbon tetrachloride	CTCL
Chlorobenzene	CLBZ
Chloroethane (Ethyl chloride)	CLEA
Chloroform (Trichloromethane)	TCLME
Dibromochloromethane (Chlorodibromomethane)	DBCME
1,2 Dibromo 3 chloropropane (DBCP)	DBCP
1,2 Dibromoethane (Ethylene dibromide; EDB)	EDB
o Dichlorobenzene (1,2 Dichlorobenzene)	DCBZ12
m Dichlorobenzene (1,3 Dichlorobenzene)	DCBZ13
p Dichlorobenzene (1,4 Dichlorobenzene)	DCBZ14
trans l ,4 Dichloro 2 butene	DCBE14T
Dichlorodifluoromethane (CFC-12)	FC12
1,1 Dichloroethane (Ethylidene chloride)	DCA11
1,2 Dichloroethane (Ethylene dichloride)	DCA12
1,1 Dichloroethylene (1,1 Dichloroethene; Vinylidene chloride)	DCE11
cis 1,2 Dichloroethylene (cis 1,2 Dichloroethene)	DCE12C
trans 1,2 Dichloroethylene (trans 1,2 Dichloroethene)	DCE12T
1,2 Dichloropropane (Propylene dichloride)	DCPA12
cis 1,3 Dichloropropene	DCP13C
trans 1,3 Dichloropropene	DCP13T

ATTACHMENT A—VOLATILE ORGANIC COMPOUNDS, SHORT-LIST

Di-isopropylether (DIPE) ..... DIPE
Ethanol ..... ETHANOL
Ethyltertiary butyl ether ..... ETBE
Ethylbenzene ..... EBZ
2 Hexanone (Methyl butyl ketone) HXO2
Hexachlorobutadiene ..... HCBU
Methyl bromide (Bromomethene) ..... BRME
Methyl chloride (Chloromethane) ..... CLME
Methylene bromide (Dibromomethane) ..... DBMA
Methylene chloride (Dichloromethane) ..... DCMA
Methyl ethyl ketone (MEK: 2 Butanone) ..... MEK
Methyl iodide (Iodomethane) ..... IME
Methyl t-butyl ether ..... MTBE
4-Methyl 2 pentanone (Methyl isobutylketone) ..... MIBK
Naphthalene ..... NAPH
Styrene ..... STY
Tertiary amyl methyl ether ..... TAME
Tertiary butyl alcohol ..... TBA
1,1,1,2 Tetrachloroethane TC1112
1,1.2,2 Tetrachloroethane ..... PCA
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene) ..... PCE
Toluene ..... BZME
1,2,4-Trichlorobenzene TCB124
1,1,1 Trichloroethane (Methylchloroform) TCA111
1,1,2 Trichloroethane TCA112
Trichloroethylene (Trichloroethene) ..... TCE
Trichlorofluoromethane (CFC 11) FC11

1,2,3 Trichloropropane TCPR123

Vinyl acetate..... VA

Vinyl chloride..... VC

Xylenes .....XYLENES

ATTACHMENT B—DISSOLVED INORGANICS (FIVE-YEAR COCS)

Constituent / Analytical Method..... GeoTracker Code

Aluminum,
USEPA Method 6010 ..... AL

Antimony,
USEPA Method 7041 ..... SB

Barium,
USEPA Method 6010 ..... BA

Beryllium,
USEPA Method 6010 ..... BE

Cadmium,
USEPA Method 7131A..... CD

Chromium,
USEPA Method 6010 ..... CR

Cobalt,
USEPA Method 6010 ..... CO

Copper,
USEPA Method 6010 ..... CU

Silver,
USEPA Method 6010 ..... AG

Tin,
USEPA Method 6010 ..... SN

Vanadium,
USEPA Method 6010 V

Zinc,
USEPA Method 6010 ..... ZN

Iron,
USEPA Method 6010 ..... FE

Manganese,
USEPA Method 6010 ..... MN

Arsenic,
USEPA Method 7062 ..... AS

Lead,
USEPA Method 7421 ..... PB

Mercury,
USEPA Method 7470A..... HG

Nickel,
USEPA Method 7521 ..... NI

Selenium,
USEPA Method 7742 ..... SE

Thallium,
USEPA Method 7841 ..... TL

Cyanide,
USEPA Method 9010C..... CN

Sulfide,
USEPA Method 9030Bx ..... S

ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST (FIVE-YEAR COCS)

USEPA Method 8260, Extended List

Constituent	GeoTracker Code
Acetone	ACE
Acetonitrile (Methyl cyanide)	ACCN
Acrolein	ACRL
Acrylonitrile	ACRAMD
Allyl chloride (3 Chloropropene)	CLPE3
Benzene	BZ
Bromochloromethane (Chlorobromomethane)	BRCLME
Bromodichloromethane (Dibromochloromethane)	DBCME
Bromoform (Tribromomethane)	TBME
Carbon disulfide	CDS
Carbon tetrachloride	CTCL
Chlorobenzene	CLBZ
Chloroethane (Ethyl chloride)	CLEA
Chloroform (Trichloromethane)	TCLME
Chloroprene	CHLOROPRENE
Dibromochloromethane (Chlorodibromomethane)	DBCME
1,2 Dibromo 3 chloropropane (DBCP)	DBCP
1,2 Dibromoethane (Ethylene dibromide; EDB)	EDB
o Dichlorobenzene (1,2 Dichlorobenzene)	DCBZ12
m Dichlorobenzene(1,3 Dichlorobenzene)	DCBZ13
p Dichlorobenzene (1,4 Dichlorobenzene)	DCBZ14
trans 1,4 Dichloro 2 butene	DCBE14T
Dichlorodifluoromethane (CFC 12)	FC12
1,1 Dichloroethane (Ethylidene chloride)	DCA11
1,2 Dichloroethane (Ethylene dichloride)	DCA12
1,1 Dichloroethylene (1, l Dichloroethene; Vinylidene chloride)	DCE11

ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST (FIVE-YEAR COCS)

cis l ,2 Dichloroethylene (cis 1,2 Dichloroethene)..... DCE12C
trans l ,2 Dichloroethylene (trans 1,2 Dichloroethene).....DCE12T
1,2 Dichloropropane (Propylene dichloride) DCPA12
1,3 Dichloropropane (Trimethylene dichloride)..... DCPA13
2,2 Dichloropropane (Isopropylidene chloride)..... DCPA22
1,1 Dichloropropene.....DCP11
cis 1,3 Dichloropropene..... DCP13C
trans l ,3 Dichloropropene DCP13T
Di-isopropylether (DIPE) .....DIPE
Ethanol ..... ETHANOL
Ethyltertiary butyl ether.....ETBE
Ethylbenzene ..... EBZ
Ethyl methacrylate.....EMETHACRY
Hexachlorobutadiene ..... HCBU
2 Hexanone (Methyl butyl ketone).....HXO2
Isobutyl alcohol ..... ISOBTOH
Methacrylonitrile ..... METHACRN
Methyl bromide (Bromomethane).....BRME
Methyl chloride (Chloromethane) ..... CLME
Methyl ethyl ketone (MEK; 2 Butanone) ..... MEK
Methyl iodide (Iodomethane).....IME
Methyl t-butyl ether..... MTBE
Methyl methacrylate .....MMTHACRY
4 Methyl 2 pentanone (Methyl isobutyl ketone) ..... MIBK
Methylene bromide (Dibromomethane).....DBMA
Methylene chloride (Dichloromethane).....DCMA
Naphthalene..... NAPH
Propionitrile (Ethyl cyanide)..... PACN
Styrene..... STY
Tertiary amyl methyl ether..... TAME

ATTACHMENT C—VOLATILE ORGANIC COMPOUNDS, EXTENDED LIST (FIVE-YEAR COCS)

Tertiary butyl alcohol ..... TBA
1,1,1,2 Tetrachloroethane TC1112
1,1,2,2 Tetrachloroethane ..... PCA
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene; PCE) ..... PCE
Toluene ..... BZME
1,2,4 Trichlorobenzene TCB124
1,1,1 Trichloroethane (Methylchloroform) TCA111
1,1,2 Trichloroethane TCA112
Trichloroethylene (Trichloroethene; TCE) ..... TCE
Trichlorofluoromethane (CFC 11) FC11
1,2,3 Trichloropropane TCPR123
Vinyl acetate ..... VA
Vinyl chloride (Chloroethene) VC
Xylene (total) ..... XYLENES

ATTACHMENT D—SEMI-VOLATILE ORGANIC COMPOUNDS (FIVE-YEAR COCS)

USEPA Methods 8270C or 8270D
(Base, Neutral & Acid Extractables)

Constituent	GeoTracker Code
Acenaphthene	ACNP
Acenaphthylene	ACNPY
Acetophenone	ACPHN
2 Acetylaminofluorene (2 AAF)	ACAMFL2
Aldrin	ALDRIN
4 Aminobiphenyl	AMINOBPH4
Anthracene	ANTH
Benzo[a]anthracene (Benzanthracene)	BZAA
Benzo[b]fluoranthene	BZBF
Benzo[k]fluoranthene	BZKF
Benzo[g,h,i]perylene	BZGHIP
Benzo[a]pyrene	BZAP
Benzyl alcohol	BZLAL
Bis(2 ethylhexyl) phthalate	BIS2EHP
alpha BHC	BHCALPHA
beta BHC	BHCBETA
delta BHC	BHCDELTA
gamma BHC (Lindane)	BHCGAMMA
Bis(2 chloroethoxy) methane	BECEM
Bis(2 chloroethyl) ether (Dichloroethyl ether)	BIS2CEE
Bis(2 chloro 1 methyethyl) ether (Bis(2 chloroisopropyl) ether; DCIP)	BIS2CIE
4 Bromophenyl phenyl ether	BPPE4
Butyl benzyl phthalate (Benzyl butyl phthalate)	BBP
Chlordane	CHLORDANE
p Chloroaniline	CLANIL4
Chlorobenzilate	CLBZLATE

p Chloro m cresol (4 Chloro 3 methylphenol) C4M3PH
2 Chloronaphthalene CNPH2
2 Chlorophenol CLPH2
4 Chlorophenyl phenyl ether CPPE4
Chrysene ..... CHRYSENE
o Cresol (2 methylphenol) MEPH2
m Cresol (3 methylphenol) MEPH3
p Cresol (4 methylphenol) MEPH4
4,4' DDD DDD44
4,4' DDE DDE44
4,4' DDT DDT44
Diallate ..... DIALLATE
Dibenz[a,h]anthracene ..... DBAHA
Dibenzofuran ..... DBF
Di n butyl phthalate ..... DNBP
3,3' Dichlorobenzidine DBZD33
2,4 Dichlorophenol DCP24
2,6 Dichlorophenol DCP26
Dieldrin ..... DIELDRIN
Diethyl phthalate ..... DEPH
p (Dimethylamino) azobenzene ..... PDMAABZ
7,12 Dimethylbenz[a]anthracene DMBZA712
3,3' Dimethylbenzidine DMBZD33
2,4 Dimehtylphenol (m Xylenol) DMP24
Dimethyl phthalate ..... DMPH
m Dinitrobenzene DNB13
4,6 Dinitro o cresol (4,6 Dinitro 2 methylphenol) DN46M
2,4 Dinitrophenol DNP24
2,4 Dinitrotoluene DNT24
2,6 Dinitrotoluene DNT26

Di n octyl phthalate ..... DNOP
Diphenylamine ..... DPA
Endosulfan I ..... ENDOSULFANA
Endosulfan II ..... ENDOSULFANB
Endosulfan sulfate ..... ENDOSULFANS
Endrin ..... ENDRIN
Endrin aldehyde ..... ENDRINALD
Ethyl methanesulfonate ..... EMSULFN
Famphur ..... FAMPHUR
Fluoranthene ..... FLA
Fluorene ..... FL
Heptachlor ..... HEPTACHLOR
Heptachlor epoxide ..... HEPT-EPOX
Hexachlorobenzene ..... HCLBZ
Hexachlorocyclopentadiene ..... HCCP
Hexachloroethane ..... HCLEA
Hexachloropropene ..... HCPR
Indeno(1,2,3 c,d) pyrene INP123
Isodrin ..... ISODRIN
Isophorone ..... ISOP
Isosafrole ..... ISOSAFR
Kepone ..... KEP
Methapyrilene ..... MTPYRLN
Methoxychlor ..... MTXYCL
3 Methylcholanthrene MECHLAN3
Methyl methanesulfonate ..... MMSULFN
2 Methylnaphthalene MTNPH2
1,4 Naphthoquinone NAPHQ14
1 Naphthylamine AMINONAPH1
2 Naphthylamine AMINONAPH2

o Nitroaniline (2 Nitroaniline) NO2ANIL2
m Nitroaniline (3 Nitroaniline) NO2ANIL3
p Nitroaniline (4 Nitroaniline) NO2ANIL4
Nitrobenzene NO2BZ
o Nitrophenol (2 Nitrophenol) NTPH2
p Nitrophenol (4 Nitrophenol) NTPH4
N Nitrosodi n butylamine (Di n butylnitrosamine) ..... NNSBU
N Nitrosodiethylamine (Diethylnitrosamine) ..... NNSE
N Nitrosodimethylamine (Dimethylnitrosamine) ..... NNSM
N Nitrosodiphenylamine (Diphenylnitrosamine) ..... NNSPH
N Nitrosodipropylamine (N Nitroso N dipropylamine; Di n propylnitrosamine) ..... NNSPR
N Nitrosomethylethylamine (Methylethylnitrosamine) ..... NNSME
N Nitrosopiperidine ..... NNSPPRD
N Nitrosospyrrolidine ..... NNSPYRL
5 Nitro o toluidine TLDNONT5
Pentachlorobenzene ..... PECLBZ
Pentachloronitrobenzene (PCNB) PECLNO2BZ
Pentachlorophenol ..... PCP
Phenacetin ..... PHNACTN
Phenanthrene ..... PHAN
Phenol ..... PHENOL
p Phenylenediamine ANLNAM4
Polychlorinated biphenyls (PCBs; Aroclors) ..... PCBS
Pronamide ..... PRONAMD
Pyrene ..... PYR
Safrole ..... SAFROLE
1,2,4,5 Tetrachlorobenzene C4BZ1245
2,3,4,6 Tetrachlorophenol TCP2346
o Toluidine ..... TLDNO
Toxaphene ..... TOXAP

2,4,5 Trichlorophenol..... TCP245

0,0,0 Triethyl phosphorothioate.....TEPTH

sym Trinitrobenzene..... TNB135

ATTACHMENT E—CHLOROPHENOXY HERBICIDES (FIVE-YEAR COCS)

USEPA Method 8151A

Constituent	**GeoTracker Code**
Atrazine	ATRAZINE
Chlorpyrifos	CLPYRIFOS
0,0-Diethyl 0-2-pyrazinyl phosphorothioate (Thionazin)	ZINOPHOS
Diazinon	DIAZ
Dimethoate	DIMETHAT
Disulfoton	DISUL
Methyl parathion (Parathion methyl)	PARAM
Parathion	PARAE
Phorate	PHORATE
Simazine	SIMAZINE

ATTACHMENT F—ORGANOPHOSPHOROUS COMPOUNDS (FIVE-YEAR COCS)

USEPA Method 8141B

Constituent ..... GeoTracker Code

2,4 D (2,4 Dichlorophenoxyacetic acid).....24D

Dinoseb (DNBP; 2 sec Butyl 4,6 dinitrophenol)..... DINOSEB

Silvex (2,4,5 Trichlorophenoxypropionic acid; 2,4,5 TP) .....SILVEX

2,4,5 T (2,4,5 Trichlorophenoxyacetic acid) 245T