SYNTHETIC ORGANIC CONTAMINANT (SOC) MONITORING WAIVER APPLICATION PACKET

2026-2028 COMPLIANCE PERIOD

Alaska Department of Environmental Conservation (DEC)
Division of Environmental Health
Drinking Water Program

Contact Information:
Anchorage: (907) 269-7656
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The SOC Monitoring Waiver Application Form and Instruction Booklet are to be used by public water systems to apply for a waiver from monitoring one or more Synthetic Organic Contaminant.

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I. Introduction

SOC Monitoring Waiver Definition

A synthetic organic chemical (SOC) monitoring waiver relieves a public water system from the requirement to test for a regulated synthetic organic chemical contaminant during a compliance period. Most of the regulated synthetic organic contaminants (SOCs) are pesticides (insecticides and herbicides).

History and Purpose

Safe drinking water for all Alaskans is a goal of the Environmental Protection Agency (EPA) and the Alaska Department of Environmental Conservation (DEC).

Amendments to the Safe Drinking Water Act in 1986 required EPA to regulate 25 new contaminants every three years. In response, EPA issued "Phase II" and "Phase V" regulations requiring many community and non-transient non-community public water systems to monitor for insecticides, herbicides, and other chemicals.

Under certain chemical, physical, and environmental conditions, groundwater contamination can occur from normal use and misuse of SOCs. Because some SOCs are not used in certain areas and because some water systems are not susceptible to contamination, EPA gave state drinking water programs the option of waiving monitoring requirements for SOCs.

DEC first developed the SOC Monitoring Waiver Application during the 1993-1995 compliance period. DEC staff improved and simplified the waiver application process to address EPA and public water system concerns. This process allows eligible systems with little or no risk of regulated SOC contamination to complete the application.

SOC Monitoring Requirements

The monitoring frequency for SOCs is described in State Regulations under 18 AAC 80.320(4). The regulations require four consecutive quarterly samples for each regulated SOC contaminant during a compliance period, unless a waiver is granted.

For SOC monitoring, the compliance period is a three-year period (e.g., 2005-2007, 2008-2010, 2011-2013, 2014-2016, 2017-2019, 2020-2022, 2023-2025). This application covers the 2026-2028 compliance period.

Federal regulations adopted by the State require that a PWS either monitors for regulated SOCs or receives a waiver for each three-year compliance period.

- PWSs serving more than 3,300 persons that do not detect a contaminant in the initial period may reduce sampling to at least two quarterly samples in one year during each repeat period.

- PWSs serving 3,300 people or fewer that do not detect a contaminant in the initial period may reduce sampling to at least one sample during each repeat period.
PWSs that qualify for a waiver are not required to test for the waived chemical during the three-year period.

All PWSs are eligible to apply for waivers for all SOCs; however, not all PWSs will qualify for waivers for all SOCs.

Applications must be submitted by September 30, 2027 to allow DEC time to review before the end of the first quarter of 2028.

Statewide Use-Waivers

No statewide SOC use-waivers will be issued. This application process replaces statewide SOC use-waivers.

About the Application

The SOC Monitoring Waiver Application packet contains:
- Application Form
- Instruction Booklet
- Activity-Use Survey Form
- Other informational materials

Applicants identify SOC use, storage, and/or disposal activities that may impact water sources. The Instruction Booklet explains each question and provides examples.
Three important components of the waiver application are:
1) determining the size of the Waiver Review Area (WRA) around the water source(s);
2) identifying SOC-related activities located within the WRA; and
3) determining if the source comes from a confined aquifer (groundwater systems).

Drinking Water Protection staff will calculate the WRA using methodologies from the Source Water Assessment process and a time-of-travel approach. The Activity-Use Survey Form is used when certain SOC-related activities exist within one mile of a PWS well or within 1,000 feet of a surface water body.

How Many Applications Are Required for Each Water System?

The application is designed to allow a system to apply for all SOC monitoring waivers under one application. Some systems must submit more than one application due to multiple water sources. Contact DEC to confirm if multiple sources can be included in a single application.

General guidelines:

- One groundwater source or one surface water source: submit **one application**.
- **Multiple surface water sources**: submit a separate application for each surface water source.
- **Multiple groundwater sources**: submit one application per well if wells are not in close proximity or combine wells if they are in close proximity. Initial processing fees apply per source.

For most groundwater systems, Drinking Water Protection staff will calculate a WRA using a uniform flow equation as an estimate of the wellhead's zone of influence.

For surface water systems, the WRA is the area within 1,000 feet of the surface water body. Applicants are not required to assess the entire watershed; focus is within 1,000 feet.

After calculating the WRA, Drinking Water Protection staff will complete a contaminant source inventory (from Source Water Assessment databases) and compare it with the applicant's Activity-Use Survey(s). If vulnerability is high, DEC may provide the inventory for verification.

Cost Savings and Fees

PWSs can save significant costs if multiple SOC monitoring waivers are approved. DEC is required to collect fees for drinking water related services.

18 AAC 80.1910(6) fees (summary):

- New waiver - processing fee: $99
- New waiver - review fee (in addition to processing):
  - $257 if SOC is not used (or has not been used) in the WRA
  - $708 if SOC is used (or has been used) in the WRA
- Renewal of existing waiver - processing fee: $99
- Renewal with substantial change - review fee applies as above ($257 or $708)

Waiver review fees are refundable if the application is denied. Applications received without total required fees will be returned unprocessed.

II. Initial SOC Waiver Application Form 2026-2028 Compliance Period

The information provided will be reviewed by DEC staff to evaluate the public water systems eligibility for SOC monitoring waivers.

Complete this **Application Form** using the **Instruction Booklet**. The waiver application process has been simplified; however, DEC staff are available to help if questions arise.

Section	Application Form (page numbers)	Instruction Booklet (page numbers) _
Inventory Information *(Questions 1, 2, 3, 4, 5, 6, and 7*)	10 - 12	24 - 28
Water Source Information *(Questions 8, 9)*	13	29
Activities *(Question 10)*	14 - 16	29
Well Information *(Questions 11 and 12)*	17 - 18	30
Monitoring/Investigation *(Questions 13 and 14)*	19	30
PWS Certification and Fees *(Question 15 and 16)*	20	30
Required Documents	21	NA
Activity-Use Survey Forum and supporting documents	31 - 38	NA
Glossary	34 - 40	NA

Inventory Information

1) Describe the type of SOC Monitoring Wavier you are applying for.

a. Waiver for new system: ☐
This applies to systems that have never applied for SOC Monitoring Waiver

b. Waiver for a new source of an existing system: ☐
This applies to existing systems that have a waiver for current sources but are not a new source.

c. Waiver for an existing system ineligible for waiver renewal: ☐
System does not qualify for Renewal of SOC Monitoring Waiver due to recent changes to the system. Examples: Greater than 10% change in population or water usage or the use of a synthetic organic chemical.

2) Public Water System Identification Number

PWS ID Number	
PWS Name	
PWS Physical Location	

3) Water Source Information (List each source covered)

In the table below, list each water source covered under this waiver application and provide the requested information.

Local Source Name (Example: Booker Street Well, Carson Stream Intake, etc.)	**State Assigned ID** *(e.g., WL001, IN001)*	**Source Type** (GW, SW, GWUDISW)	**Purpose** (Primary/Secondary/Emergency/Seasonal)	**Method(s) of Treatment** (Chlorination, fluoridation, filtration, coagulation, sedimentation, reverse osmosis, ozone, none, etc.)

4) PWS Owner or Operator (Specify)

Owner ☐ Operator ☐ (Select one)

Name	
Address	
City/State/Zip	
Phone	
Fax (if applicable)	
Email	

5) Form Prepared By

Name	
Address	
City/State/Zip	
Phone	
Fax (if applicable)	
Email	

6) Population Served

Fill in the appropriate resident, non-resident, and total population numbers, and circle whether your answer is estimated or known. The population served is the number of people that use the water system on a regular daily basis.

Residential Population Served: _____ people/day Estimated ☐ Unknown ☐
Non-resident Population Served: _____people/day Estimated ☐ Unknown ☐

Total Population Served: _____people/day Estimated ☐ Unknown ☐

7) Select the regulated SOC contaminants for which a monitoring waiver is requested

The table below lists regulated synthetic organic chemical contaminants. From the list below, specify only those chemicals for which you are requesting a monitoring waiver, by placing a check mark in front of the chemical name. Most PWS owners or operators will request a monitoring waiver for all regulated SOCs.

Refer to pages 26-28 of the instructions for a list of pesticide trade names and common uses.

☐ Select SOCs

☐ Alachlor	☐ Atrazine
☐ Aldicarb	☐ Aldicarb Sulfoxide
☐ Aldicarb Sulfone	☐ Carbofuran
☐ Chlordane	☐ Dalapon
☐ Dibromochloropropane (DBCP)	☐ Dinoseb
☐ Diquat	☐ Endothall
☐ Endrin	☐ Ethylene Dibromide (EDB)
☐ Glyphosate	☐ Heptachlor
☐ Heptachlor Epoxide	☐ Lindane
☐ Methoxychlor	☐ Oxamyl (Vydate)
☐ Pentachlorophenol	☐ Picloram
☐ Simazine	☐ Toxaphene
☐ 2,4-D	☐ 2,4,5-TP
☐ Benzo[a]pyrene	☐ Di(2-ethylhexyl)adipate
☐ Di(2-ethylhexyl)phthalate	☐ Hexachlorobenzene
☐ Hexachlorocyclopentadiene	☐ Polychlorinated biphenyls (PCBs)
☐ 2,3,7,8-TCDD (Dioxin)	

8) Primary and Secondary Water Sources (Location)

List the system's primary and secondary water sources. Provide name, legal description, and latitude/longitude in Decimal Degrees (WGS84).

Attach a map (As-Built, Google Maps/Earth, Bing, etc.) to help DEC verify lat/long information.

Water Source Name	Legal Description (Township/Range/Section or Lot/Block/Subdivision)	Latitude (DD, WGS84)	Longitude (DD, WGS84)

Map provided: ☐ Yes

9) Describe land features near the water source(s)

Describe vegetation, slope, drainage/contours, and location of rivers/streams/lakes/ponds, etc.

Activities

10) Activities (Potential SOC sources)

Identify activities that may have used, stored, or transported SOCs within one mile of each well (groundwater) or within 1,000 feet of the surface water body.
Circle/mark Yes or No for each activity. A "Yes" indicates the activity exists now or existed within the past 10 years.

TABLE 1 - Higher Concern Activities (If "Yes", Activity-Use Survey Form is required.)

Category	Activity	Yes	No
Commercial/Agricultural	feedlot	☐	☐
	pesticide use/storage	☐	☐
	grain bin for fumigation	☐	☐
	commercial greenhouse, nursery, farm	☐	☐
	fertilizer use (with pesticides)	☐	☐
Municipal/Urban/Government	industrial waste disposal	☐	☐
	landfill, dump	☐	☐
	junk yard	☐	☐
	abandoned landfill	☐	☐
	hazardous waste/storage	☐	☐
	military installation	☐	☐
	golf course	☐	☐
	public garden	☐	☐
	logging activities	☐	☐
Commercial/Industrial	pulp mill	☐	☐
	industrial construction	☐	☐
	wood preserver	☐	☐
	chemical reclamation	☐	☐
	research laboratory	☐	☐
Transportation/Utilities	utility substation	☐	☐
Medical/Veterinary	veterinary clinic	☐	☐
Heavy Industrial/Mining	coal mining	☐	☐
Wells	injection well	☐	☐
Other	pet groomer/pet supplies	☐	☐

For each Table 1 activity with a “Yes” response:

1) Show the location and the approximate size of the activity on the site drawing or map.

2) Show the approximate distance from the activity to each of the water system’s primary and secondary water sources.

3) After illustrating the activities on the site drawing, continue with question 11 on the next page.

(Question 10, Continued)

TABLE 2 - Lower Concern Activities (Activity-Use Survey Form is not required for Table 2 activities.)

Category	Activity	Yes	No
Commercial/Agricultural	meat packing/slaughterhouse	☐	☐
	manure pile	☐	☐
	animal burial	☐	☐
	forest land	☐	☐
	fertilizer use (without pesticides)	☐	☐
	fertilizer storage	☐	☐
Municipal/Urban/Government	municipal wastewater treatment	☐	☐
	individual residence	☐	☐
	subdivision	☐	☐
	septic tank	☐	☐
	park	☐	☐
	home garden/greenhouse	☐	☐
Commercial/Industrial	storm water impoundment	☐	☐
	truck terminal	☐	☐
	wastewater impoundment	☐	☐
	lift station	☐	☐
	incinerator	☐	☐
	sewer line	☐	☐
	urban runoff	☐	☐
	photo processor	☐	☐
	metal plating	☐	☐
	descaler	☐	☐
	food processor	☐	☐
	laundromats	☐	☐
Wholesale/Retail	car wash	☐	☐
	beauty salon	☐	☐
	fertilizers	☐	☐
	auto/chemical supplies	☐	☐
	painting supplies	☐	☐
	autobody shop	☐	☐
	service station/auto repair	☐	☐
Heavy Industrial/Mining	sand/gravel mining	☐	☐
	power plant	☐	☐
Tanks and Storage	above-ground storage tank	☐	☐
Transportation Related	road	☐	☐
	railroad	☐	☐
	airport/maintenance yard snow clean-up	☐	☐
	salt/sand pile	☐	☐
Other	gravel pit	☐	☐

Category	Activity	Yes	No
Other	asphalt	☐	☐
	reserve pits	☐	☐
Wells	abandoned well	☐	☐
	exploration well	☐	☐
	geothermal heat recovery well	☐	☐
	monitoring well	☐	☐
	production well (oil)	☐	☐
Medical	mortuary/funeral home	☐	☐
	graveyard	☐	☐
	medical/dental clinic	☐	☐
Tanks and Storage	underground storage tank	☐	☐
	fuel oil distributor	☐	☐
	oil pipeline	☐	☐

If you answered "Yes" to any Table 1 activity, illustrate the activity on a site drawing/map and show the distance to each primary/secondary source.

Well Information

11) Determine if source water is from a confined aquifer, and if the well is protected from surface runoff:

For each of the water system's primary and secondary wells, answer the four questions below. If the applicant has multiple wells, complete a copy of this form for each well. Make copies of this page as needed

Well Name: _____

A.) A well log is required for each well. Is the well log attached to this application?

☐ Yes ☐ No

Comments:

B.) Is there evidence that water from the well comes from a confined aquifer?

☐ Yes ☐ No

Comments:

C.) Is there a seal on the top of the well?

☐ Yes ☐ No If yes, what type? ☐ Well Cap ☐ Sanitary Seal

Comments:

D.) Is surface water diverted from the well (grading, cement pad, bentonite grouting, etc.)

☐ Yes, ☐ No

Comments:

12 - Well Characteristics (Groundwater sources only)

List each primary/secondary well in the table below and provide requested information.

Well Name	Casing height above ground (inches)	Maximum pumping rate (gpm)	Maximum production per day (gpd)	Average production per day (gpd)

Comments (optional): (Provide any additional information that you believe will better describe the well(s) and/or will clarify the data provided above.)

SOC Monitoring and Investigation

Question 13 is for applicants who have answered “Yes” to at least one activity from Question 10, Table 1 “Higher Concern Activities” (see page 14).

All water systems (surface water or groundwater) with no Table 1 activities should skip to question 14 below.

13 - Table 1 Activities Details (if applicable)

If any Table 1 activity is marked "Yes", complete one line for each activity and attach an Activity-Use Survey Form for each Table 1 activity.

Type of Activity (from Table 1)	Name of Activity + Owner/Manager Responsible	Activity-Use Survey Form Attached? (Yes/No)

If an Activity-Use Survey Form is not attached for any of the above-listed activities, please explain in the space below why it is not available

14 - SOC Testing

Has any SOC testing been done at this PWS? ☐ Yes ☐ No

If yes, give details (when, who collected, who analyzed) and attach results if available:

PWS Certification and Fees

15) Owner/Operator Certification:

I certify that I have reviewed the information in this application. To the best of my knowledge and belief, the information is complete and accurate.

_____ _____

Signature of Responsible Official (Owner or Operator) Date

_____ _____

Printed Name and Title of Responsible Official (Owner/Operator) Date

16) Application and Waiver Fees (Refer to page 8 for the breakdown of application fees

Total Fees (Processing and Waiver Review Fees*) Included with the Application:

$_____

*If the SOC Monitoring Waiver Application is denied the Waiver Review Fee will be reimbursed and the system must sample for SOCs.

Processing and Waiver Fees will be paid by:

☐ Check ☐ Credit Card ☐ Other Explain:_____

Card payment can be made by providing a contact name, phone number and email.

Contact:_____ Phone Number: _____

Email: _____

Application can be submitted by email to: dec.soc.waivers@alaska.govor mailed to:

State of Alaska
DEC Drinking Water Program
555 Cordova Street

Anchorage, AK 99501

Questions: Outside Anchorage 1-866-956-7656 | Within Anchorage (907) 269-7656

Required Documents

1) A completed SOCs Monitoring Waiver Application Form.
2) A site drawing and/or topographical map, showing the general location and boundary of any Table 1 activity present (see page 14 for Table 1).
3) Well logs and other related hydrogeological information, if available.
4) Aquifer pump tests completed for the wells.
5) Map with identification of well location (As-build, Google Maps, Google Earth, Bing and Yahoo Maps are all acceptable.
6) Information that may support that the well is confined (in a confined aquifer or has confining layers).
7) Past SOC test results
8) Completed Activity-Use Survey Form(s), only if Table 1 activities have been identified in the WRA.

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III. Instruction Booklet

These instructions were developed to help applicants fill out the SOC Monitoring Waiver Application Form. Each question is explained in further detail.

Section	Application Form (page numbers)	Instruction Booklet (page numbers) _
Inventory Information *(Questions 1, 2, 3, 4, 5, 6, and 7*)	10 - 12	24-28
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Monitoring/Investigation *(Questions 13 and 14)*	19	30
PWS Certification and Feed *(Question 15)*	20	30
Required Documents	21	NA
Activity-Use Survey Forum and supporting documents	31-38	NA
Glossary	39 - 40	NA

Inventory Information

Question 1) SOC Application Type

a.) Identify whether this application is the initial SOC Application for a new system that has never applied for a SOC Monitoring Waiver

b.) New waiver because system no longer qualifies for a Waiver due to recent changes or a new source has been added to the system.

Question 2) Public Water System ID (PWSID) Number

PWSID No.: Each PWS in Alaska is assigned a Public Water System Identification Number (PWSID). This number is a 6-digit identification number by the DEC Drinking Water Program. Provide this number where indicated. If this number is unknown, contact the Drinking Water Program.

PWS Name: Provide the name of the water system. For example: Moose Creek Subdivision Public Water System, Ptarmigan Heights Subdivision, etc.

Location: Provide the general "physical" location of the water system. The location is where the water system is physically or geographically located. For example: West Fairbanks; or, 3 miles East of Barrow, etc. Include the name of the town, village, or city (or closest community) in the description.

Question 3) Public water systems may have one or several water sources

For this question, list all the water sources for this water system. For each source listed, provide the water source name (as you refer to it), the type of water source, the water source use or purpose, and the method(s) of treatment. Possible values for each field of the table are provided below.

Local Source Name (Column 1): Public water systems sometimes have more than one water source. Water sources include primary, secondary, and emergency sources. Refer to the "Glossary of Technical Terms" for definitions. List all PWS water sources by name; i.e., Booker Street Well, Lincoln Loop Well, Carson Creek, Acres Lake, etc. (The applicant should refer to the water source by the same name throughout the application.)

State Assigned Identification (Column 2): For each water source listed in Column 1, assigned Identification. Examples: WL001, WL002, IN001, IN002, SP001, SP002, IG001, IG002 .

Source Type (Column 3): For each water source you listed in Column 1, list the water source type. Examples of water source types include Groundwater (GW), Surface Water (SW), or Groundwater under the Direct Influence of Surface Water (GWUDISW). Refer to the "Glossary of Technical Terms" for definitions.

Purpose (Column 4): For purposes of this waiver application, a water source is considered either a primary, secondary, or emergency water source. A primary water source is routinely or regularly used to provide potable water to the public. A secondary water source is not routinely or regularly used to provide potable water, but it may be brought online during peak water usage, during seasonal periods, or for backup purposes. Both primary and secondary water sources are

tested for bacterial, inorganic, and other contaminants. An emergency water source is used in the event of a fire or other unusual circumstances A fire suppression well would not generally be used to supply potable water to the public and it would not usually be required to test for contaminants. Refer to the "Glossary of Technical Terms" for definitions.

Method(s) of Treatment (Column 5): Many different methods of water treatment exist. Examples include chlorination, fluoridation, coagulation, sedimentation, filtration, granulated activated carbon filtration, green-sand filtration, reverse osmosis, ozone, etc. In the space provided, list the water treatment types used for each water source listed. If no water treatment exists for the water source, indicate "none."

Question 4) PWS Owner or Operator

List the name, mailing address, telephone number, and FAX number if available for the person who filled out this waiver application form. In most cases, this will be the PWS owner and/or operator. In the case where a contractor is hired to complete the application form, this information would reflect the contractor's name, address, and telephone number.

Question 5) Form prepared by

List the name, mailing address, telephone number, and FAX number if available for the person who filled out this waiver application form. In most cases, this will be the PWS owner and/or operator. In the case where a contractor is hired to complete the application form, this information would reflect the contractor's name, address, and telephone number.

Question 6) List the PWS total population served

Total population served is the total number of people that use the PWS on a regular daily basis. This information will be used by some applicants to calculate the size of the Waiver Review Area, discussed later. Where indicated, list the resident and non-resident population that uses water from the public water system. Also, indicate whether the resident population number provided is based on a census, or if it is estimated.

Question 7) Select the regulated synthetic organic chemical contaminants for which a monitoring waiver is requested

A list of regulated synthetic organic contaminants is provided on pages 26-28 of these instructions. Review this list of regulated SOCs, their common trade names, and uses. Then refer to page 12 of the application form and select only those regulated organic chemicals for which you are requesting a monitoring waiver. Many public water systems will be applying for a monitoring waiver for all regulated SOCs listed.

Table 1 REGULATED PESTICIDES, COMMON TRADE NAMES, AND RELATED CHEMICALS

Chemical Name	Trade Name	Usage
2,4-D	2,4-Dichlorophenoxy acetic acid, Acme Main 4, Acme Butyl Ester 4, Acme LV 4, Acme LV 6, Agrotect, Amoxone, Aquakleen, Chlorozxone, Croprider, Crossbow, D50, Dinoxol, DMA-4, Dormone, Emulsamine BK, Emulsamine E-3, Estone, Fernesta, Fernimine, Fernoxone, Ferxone, Lawn-Keep, Macondray, Pennamine D, Planotox, Plantgard, Tributon, Weed-B-Gon, Weedar, Weedone, Weedmaster, Weed and Feed, Weedatul, Chipco Turf Herbicide D, Esterone 99, Formula 40, Spritz-Hormit, Weed-Ag-Bar, Weedez Wonder Bar, Basagran, Acme Super Brush Killer 875, U 46 DP, Duplosan DP-D, Duplasan KV-Combi, Chipco Turf Kleen, 2 Plus 2, Actril DS, Mad, Gordons Vegemec Vegetation Killer, Lentemul, SEE	*Herbicide for general weed control. Used in weed & feed type products to control. Broad leaf weeds like dandelions. May be combined with picloram.
2,4,5-TP	2,4,5-Trichlorophenoxy propionic acid, Silvex, Aqua Vex, Frutone T, Kurosal, Weed-B-Gon, Amchem 2,4,5-TP, Ded-Weed, Double Strength, Kuron, Silvi-Rhap, T-Nox, Fruitone, Esteron, Brush-B-Gone, Fence Rider, Line Rider	*Herbicide used on fence rows, rights of way, golf courses, (cancelled in 1983). Used by local airports, Railroad, highways, after 1950's to cancellation in 1983. Used by military.
Hexachloro-cyclopentadiene	Intermediate in synthesis of cyclodiene insecticides, gamma BHL	Intermediate chemical compound.
Lindane	Agronexit, Silvanol, Forlin, Gamaphex, Gammex, Isotox, Lacco Hi Lin, Lacco Lin-O-Mulsion, Lindagam, Lin-O-Sol, Novigam, Agrox 3-Way, Gamatin, Germate, Vitavax, Grano, Landafor, Lintox, Nexit, Lindafor	*Insecticide used for soil treatment, foliage application on fruit and nut trees (most uses restricted in 1983). Currently used for treating wood inhabiting beetles. Some uses Restricted Use Pesticide (RUP) Pet product for parasite control.
Methoxychlor	Double-M, Chemform, Flo Pro McSeed Protectant, Moxie, AlfaTox, DMDT Dual, Pennant, Dueler, Medal, Ontract	*Insecticide used on fruit and shade trees, gardens, around buildings Fungicide.
Oxamyl	DPX-1410, Vydate, Thioxamyl	Insecticide, nematicide used for certain insects, mites, and/or nematodes Used on many field crops, fruits and vegetables.
Polychlorinated Biphenyls (PCBs)	Arochlor, Phenochlor, Kanechlor	*Used primarily in the electrical industry (transformers).
Pentachlorophenol	Penta, Penwar, Pentacon, Penta Ready, Penta WR, Penta Plus 40, Penta EC 30, Penta Preservative Ready-to-Use, Penchlorol, Santophen, PCP	Used as a wood preservative. Prior to 1987 it was also used as a wide-spectrum fungicide and bactericide. Restricted Use Pesticide (RUP).

Chemical Name	Trade Name	Usage
Picloram	Amdon, Borolin, K-Pin, Access, Tordon, Grazon	*Systemic herbicide used on a variety of deep-rooted herbaceous weeds (may be combined with 2,4D). Used for "right of way" weed control, especially by utility companies.
Simazine	Cekusan, Framed, Caliber 90, Simadex, Aquazin 80 W, Amizine, Simazol, Remtal SC, Pathclear	Selective herbicide for annual grasses and broad leaf weeds. Groundwater concern.
Toxaphene	Camphoclor, Motox, Phenacide, Phenatox, Strobane T-90, Toxakil, Toxon 63, Attac, Polychloro camphene	Widely used pesticide and herbicide. Most uses cancelled in 1982. Restricted Use Pesticide.
Alachlor	Lasso, Pillarzo, Alatox-480, Alazine, Lozo, Lariat, Nudor Extra, Bronco, Alanex, Bullet, Stake	Herbicide on corn and soybean Groundwater concern Many formulations. Cancelled
Atrazine	Aktikon, Atrazinax, Atratol, Fenamin, Aatrex, Prozine, Gesaprim, Zeaphos, Nudor Extra, Atramet Combi, Crisazin-Crisatrina, Kombi, Drexel, Rhino, Farmco Anizine, Aaa Flowable, Marksman, Primextra, Bicpe, Conquest, Candex, Extrazine, Vestal, Rapuzin, Pramatol	Widely used herbicide on corn and non-crop land. Restricted Use Pesticide (RUP). Algicide; pool, aquarium, spa agents many formulations. Cancelled.
Benzo(a)pyrene	No trade name; polyaromatic hydrocarbon; combustion byproduct	Not a pesticide Usually found in coal tar Coal tar pitch volatiles.
Carbofuran	Bay 70143, Crisfuran, Curaterr, Yaltox, Furadan, Carbodan, Carbosip, Chinufur, Kenofuran	Soil fumigant and insecticide on corn.
Chlordane	Forchlor, Kill-Ko, Sydane, Belt, Chlor Kil, Chlorotox, Corodane, Gold Crest C-100, Kilex Lindane, Kypchlo, Octachlor, Synklor, Termided, Topiclor 20, Velsicol 1068, Aspon-chlordate, Ortho-Klor, Niran, Termide, Chlorohepton	*Soil insecticide for termite control, corn. It was used in Alaska's for cutworm control. Cancelled in 1980.
Dalapon	Dalapon-Na, Ded-Weed, Devipon, Gramevin, Revenge, Unipon, Dowpon M, Radapon, Basfapon, Basinex P and N	Selective herbicide in cropland, non-cropland area and irrigation ditch banks.
Di (2-ethylhexyl) adipate	DOA; plasticizer	Used as plasticizer and vinyl resin compound.
Di (2-ethylhexyl) phthalates	DOP, DEHP, BEHP, Bisoflex, Eviplast, Octoil, Latimol, Sicol; plasticizer	Used as plasticizer for resins.
Dibromochloro-propane (DBCP)	Nemafume, Nemanax, Nemaset, BBC 12, Fumazone, Nemagon, Nematocide, Oxy	Soil fumigant for nematode control Used mostly on pineapples Most uses Cancelled in 1979
Dinoseb	DNBP, Basanite, Elgetol 318, Helfire, Kiloseb, Nitropon C, Sinox General, Caldon, Chemox, Chemsect, Dinitro, DN-289, Dynamyte, Gebutox, Premerge, Subitex,	*Selective pre-emergent herbicide on numerous crops. All sale and use Cancelled in 1987. Had to be shipped out of state to dispose of.

Chemical Name	Trade Name	Usage
	Unicrop DNBP, Dinitro Weed Killer, Vertac, Dyanap, Spurge, Contact	
Dioxin	2,3,7,8-Tetrachlorodibenzo-p-Dioxin	Preservative for cutting oil, resin emulsions, water-based paints, cosmetics, and inks. *By-product of some manufacturing processes such as pulp mills or incinerators. Contaminated batches of 2,4 D and 2,4,5 T(Silvex)
Diquat	Midstream, Actor, Dextrone, DNBP, Krop, Reglox, Aquacide, Weedtrin-D, Klean, Preeglone, Proglone, Weedool, Pathclear	*Herbicide for aquatic weeds and non-crop areas.
Endothall	Aquathol, Endothal Weed Killer, Hydout, Des-i-cate, Penco, Weedtrine, Byramin, Weedaway, Hydrothol, Niagrathal, Herbicide 273	Herbicide for algae and aquatic weeds; desiccant.
Endrin	Hexadrin, Endrex, Endrisol, Nendren, Rid a Bird	Herbicide and insecticide; Cancelled.
Ethylene Dibromide (EDB)	Bromofume, E-D-Bee, Kopfume, Nephis, Dowfume, Soilbrom, EDB	Fumigant used on soil and small grains, lead scavenger. Aquatic herbicide in combination with diquat. *used in some leaded gasolines; most uses Cancelled.
Glyphosate	Roundup, Rodeo, Herbolex, Glycel, Honcho, Ranger, Sting, Hockey, Knockout, Shackle, Kleen-up, Myster, Accord, Azural, Arcade, Expedite	*Non-selective herbicide controlling annual and perennial weeds.
Heptachlor	Drinox H-34, Heptamul, Heptox, H-60, Termide, Chlorohepton	Insecticide for termite control; cancelled in 1978.
Heptachlor epoxide	Degradation product of Heptachlor	Degradation product.
Hexachlorobenzene	Perchlorobenzene, Anticarie, Ceku C.B., No Bunt	Fungicide used on wheat.

* = known use in Alaska
RUP = Restricted Use Pesticide (must be a certified applicator to purchase or use)
Canceled = sale is illegal; use may be illegal

Water Source Information

Question 8) Primary and secondary sources and location(s)

Provide source name, legal description, and latitude/longitude (assumed WGS84). If unknown, estimate using map or GPS. Provide a location map.

For this question, list the water system's primary and secondary water sources. Provide the source name and location. Use the same name for the water source as specified in question 3 (see page 10). Provide the legal description of the property where the water source is located, and latitude/longitude of the water source in degrees, minutes, and seconds. One example of a legal description is Lot 1, Block 2, Westbank Subdivision. If latitude/longitude is not known, estimate it using a quad-map or global positioning system (GPS). Space is available for listing latitude/longitude in degrees, minutes, and seconds. The assumed datum is WGS 84; if another datum is used, please specify what that is. In Alaska, all latitudes are North, and all longitudes are West, with the exception of Amchitka.

Question 9) Describe land features (hydrologic and geologic) within the general area of the water sources(s)

Land features include slope, drainage, type of vegetation, topography, soil conditions, etc.

Activities

Several activities are listed in Tables 1 and 2 in the application form. Activities listed, in general, are associated with use, storage, and/or disposal of SOCs. The activities listed are broken into two groups (shown in Tables 1 and 2) so that DEC staff can focus attention on specific activity types. Public water systems with lower risk of SOC contamination (no Table 1 activities) are allowed to skip several questions in the application form.

Question 10) Identify all potential sources of SOC contamination by identifying activities that, in general, have used/stored/transported SOCs

Review Tables 1 and 2. If any activity exists now or has existed within the last 10 years within one mile of the well (groundwater source) or 1,000 feet of the surface water body, the applicant should circle the "Yes" response. Otherwise, the applicant should circle the "No" response, indicating that the activity does not exist.

If the applicant circled "Yes" to any activity in Table 1 (from page 14), the approximate location and boundary (size) of the Table 1 activity needs to be drawn on a site drawing or map. This includes the distance (in feet) between the activity and the water system's primary and secondary water sources. Table 2 activities do not need to be illustrated on the site drawing. After completing the drawing, groundwater systems with Table 1 activities should proceed to question 10. Surface water systems with Table 1 activities should skip to question 12.

Complete question 10 A-D for the water system's well(s).

If the water system has multiple wells, the applicant must copy and complete Page 13 of the monitoring waiver application for each well included in the combined Waiver Review Area. You are required to submit well logs for each well as documentation.

Well Information

Question 11) Determine if source water is from a confined aquifer and if the well is protected from surface runoff

Question 12) Well characteristics

Complete question 11 for the water system's well. If the water system has multiple wells, answer question 11 for each primary or secondary well. The heading for this table should specify the name of the primary and/or secondary well(s). Enter the following information in the table provided.

SOC Monitoring / Investigation

Question 13) Table 1 activities

If any Table 1 activities exist, contact the owner/manager to determine SOC use/storage/disposal within the last 10 years. Complete one Activity-Use Survey Form per Table 1 activity and attach the forms.

Question 14) SOC testing

If testing was completed at or near the PWS, indicate Yes and attach results if available.

Fees and PWS Certification

Question 15) Certification

The responsible official must sign and date the application and certify completeness/accuracy.

Question 16) Application Waiver Fees

Fees (18 AAC 80.1910): Processing fee $99/source; Waiver review fee $257/source (no SOC use) or $708/source (SOC use).

IV. Activity-Use Survey Form

Instructions for the SOC Monitoring Waiver Applicant

"Activity-Use" refers to an activity that has used, stored, transported, or disposed of one or more regulated SOCs. An Activity-Use Survey Form is required for each activity marked "Yes" in Table 1 (Question 10 on page 14 of the SOC Monitoring Waiver Application). A separate form must be completed for each Table 1 activity located within one mile of each well (groundwater source) or within 1,000 feet of each surface water body.

To complete the survey, provide the Activity-Use Survey Form to the owner or manager of each activity identified in Table 1. The survey may be conducted in person, by phone, or by mail. In-person or phone surveys are encouraged, as they allow you to explain the purpose of the survey and answer questions. If this is not practical, mail the form to the appropriate business or landowner.

Business contact information may be obtained through local directories or business licensing agencies. Landowner information can be requested from the tax assessor's office (a legal property description may be required).

Before sending the form, complete Section I with your public water system name, contact information, and mailing address so the recipient knows who sent the survey and where to return it. Include a copy of the SOC list (pages 26–28 of the instructions). Providing a stamped, self-addressed envelope may improve response rates. All completed Activity-Use Survey Forms must be submitted with the SOC Monitoring Waiver Application.

If a recipient wishes to verify the survey's authenticity, direct them to the DEC Drinking Water Protection Program. Recipients should contact you first with general questions. If needed, you may contact the Drinking Water Protection Program for assistance:

Anchorage: (907) 269-7549
Toll-free (outside Anchorage): 1-866-956-7656

Dear Community Member:

I am sending you this letter as the representative for,_____ which is a public water system (CWS or NTNCWS). State regulations require testing for synthetic organic contaminants (SOCs), most of which are pesticides (including herbicides). These tests can be expensive and are repeated every three years for each water source.

DEC has developed a waiver program that can reduce testing requirements when vulnerability is low. Before applying, we must determine if regulated SOCs have been used, stored, and/or disposed of near our water source(s).

You are being asked to complete the enclosed survey because you own or operate an activity within our Waiver Review Area.

Please review the attached fact sheet and SOC list and answer the questions to the best of your ability. If you have questions, please contact me at: _____.

Thank you for your time and assistance.

Sincerely,

Activity-Use Survey Form

I –Water System Contact Information: Water System Representative

Public Water System (PWS) Name: _____

Representative Name:_____

Mailing Address: _____

Affiliation with PWS: ☐ Owner ☐ Operator ☐ Other

II - Activity Contact Information

Name and/or Type of Activity Being Surveyed (example: Greatland Greenhouse – commercial greenhouse):

Name, address, and phone number of person being interviewed/surveyed:

How is this person affiliated with the activity (Owner, Manager, Operator, or Other/describe):

III. Activity Survey Questions

A.) General Information:

1. Size of activity (acres, sq ft, etc., if applicable: _____.
2. How long has the activity been conducted at this location? _____
3. Is the activity still in operation or active? ☐ Yes ☐ No
4. Has the soil of water been tested for pesticides at this site in the past?

   ☐ Yes ☐ No ☐ Unknown

B.) Chemical (SOC) User Section:

1. a.) Were any chemicals on the attached SOC list used at this site in the last 10 years?

☐ Yes ☐ No ☐ Unknown

b.) Do you anticipate using any of these chemicals in the future?

☐ Yes ☐ No ☐ Unknown

If yes, please list chemicals used:

Chemical(s)	**Quantity**	**Use Frequency**	**How Used**

C.) Chemical (SOC) Storage

1. Were any chemicals on the SOC list currently stored **o**r previously stored at the site in the last 10 years?

☐ Yes ☐ No ☐ Unknown

If yes, please list chemicals used:

Chemical(s) Previously Stored	Quantity Stored	What happened to them?

Chemical(s) Currently Stored	Quantity Stored	Chemical(s) Currently On Order

D.) Chemical (SOC) Disposal

1. Were any chemicals on the SOC list disposed of at the site within the last 10 years?

☐ Yes ☐ No ☐ Unknown

If yes, please list chemicals disposed of:

Chemical(s)	Quantity	When	Where/How Disposed

III. Additional questions for activities that have been used, stored or disposed of SOCs on site.

A. Wells and Septic's

1. a.) Does the activity have any on-site wells on the property? ☐ Yes ☐ No

b.) If yes, do the on site well have proper sanitary seals? ☐ Yes ☐ No

c.) If DEC has funding available, may DEC test these on-site wells as part of this waiver process? ☐ Yes ☐ No

2. a.) Are there any on-site wastewater disposal systems, storm drains, sumps, or floor drains? ☐ Yes ☐ No

b.) If yes, are you aware of any pesticides being disposed of in these drains, etc. ☐ Yes ☐ No

3. a. Are you aware of any fuel spills at this site in the past? ☐ Yes ☐ No
(Note: this question is being asked because some pesticides are added to fuel as antiknock agents.)

B. Agricultural-type Activities (Past 10 Years)

1. a. Are/were any crops grown? ☐ Yes ☐ No ☐ Unknown

b. Are/were the crops treated with agricultural chemicals? ☐ Yes ☐ No ☐ Unknown

If yes, list crops, chemicals and when they were used"

Crop(s)	Agricultural Chemical(s)	When

2. a. Are/were livestock present? ☐ Yes ☐ No ☐ Unknown

b. Are/were livestock treated with chemicals? ☐ Yes ☐ No ☐ Unknown

If yes, list livestock and chemical used:

Livestock Type	Approximate Number	Chemical(s) Used	When

IV. Observations and/or Comments

Describe any concerns or clarifications DEC should consider:

V. Signature Block

How was the survey completed? (Mail, in person, other) Describe:

This form was completed by:

Print Name: _____

Signature: _____ Date: _____

Synthetic Organic Contaminants (SOCs) Activity User Survey Form

This Fact Sheet is to be used to .by a public water system that has identified a Table 1 High Risk Activity during the completion of their SOC Monitoring Waiver Application

What is the Activity-Use Survey Form?

This survey is part of the SOC Monitoring Waiver Application. Its purpose is to help a public water system determine whether regulated SOCs have been used, stored, or disposed of near the water source so DEC can evaluate eligibility for reduced monitoring

Why am I being asked to complete this? You own or operate an activity in the vicinity of a public water system's well or source, and only certain activities generally associated with SOCs are surveyed.

What are SOCs? Most are pesticides (including herbicides). A list of regulated SOCs should be provided with the survey.

Will the system be penalized if I do not complete this? Without adequate information, DEC may require full monitoring, which can be costly and may impact consumers. Participation helps support safe drinking water and cost-saving practices.

Are you telling me I can't use these chemicals? No. The purpose is to establish monitoring schedules. DEC may follow up in limited situations about restricted/cancelled chemicals and proper use/disposal.

Where do I send the form? Return the completed form to the public water system representative listed in Section I of the survey.

Who do I contact with questions? First contact the PWS representative. DEC is available to help: Drinking Water Protection Program, Anchorage (907) 269-7549; Outside Anchorage 1-866-956-7656.

More information about pesticides: DEC Pesticide Program Toll-free 1-800-478-2577

Glossary of Technical Terms

Term	Definition
18 AAC 80	The Alaska Drinking Water Regulations currently in effect. Refers to Title 18 of the Alaska Administrative Code, Chapter 80.
active nonemergency water source	Includes all water sources classified as primary, secondary, or seasonal water sources.
activity	An action or land use that has the potential to adversely impact drinking water quality (e.g., military installation, landfill, farming).
activity-use survey	Survey conducted within the Waiver Review Area to determine past and present regulated SOC use, storage, or disposal.
approved	Recognized by DEC as having met regulatory requirements.
aquifer	Geologic formation that contains sufficient saturated permeable material to yield economical quantities of water to wells and springs.
Community Water System (CWS)	A public water system that regularly serves at least 25 year-round residents or at least 15 service connections used by year-round residents.
Non-Transient Non-Community Water System (NTNCWS)	A public water system that regularly serves at least 25 of the same individuals over six months of the year.
confined aquifer	Groundwater beneath a formation with significantly lower permeability limiting vertical water movement.
contaminant	Any physical, chemical, biological, or radiological substance in water that may render it unfit for human consumption.
contamination	Presence of a contaminant exceeding regulatory limits or in sufficient quantity to make water unsafe.
compliance cycle	Nine-year calendar cycle consisting of three three-year compliance periods.
compliance period	Three-year period within a compliance cycle during which monitoring must occur.
distribution system	Post-treatment storage facilities, conduits, mains, lines, fixtures, pumping stations used to carry water to consumers.
drawdown	Difference between static water level and pumping water level in a well.
EDB	1,2-dibromoethane, also known as ethylene dibromide.
EPA	United States Environmental Protection Agency.

Term	Definition
filtration	Process of removing particulate matter by passing water through porous media.
groundwater	Water beneath the surface of the ground, excluding groundwater under direct influence of surface water.
groundwater under direct influence of surface water (GWUDISW)	Groundwater that is significantly affected by surface water conditions.
hydrogeologic	Properties relating to subsurface waters and surrounding soil/rock characteristics.
maximum contaminant level (MCL)	Maximum allowable level of a substance permitted in drinking water.
pesticide	Substance intended to prevent, destroy, control, repel, or mitigate pests.
primary water source	Water source regularly used to provide potable water to the public.
secondary water source	Source used occasionally or as backup.
public water system (PWS)	System providing water for human consumption to more than one residential dwelling or facility.
quarter	One of four three-month periods in a calendar year.
recharge	Addition of water to the zone of saturation.
Restricted-Use Pesticide (RUP)	Pesticide that can only be purchased and applied by certified applicators.
sanitary seal	Watertight device attached to top of well casing to prevent contamination.
Synthetic Organic Contaminants (SOCs)	Group of man-made chemicals regulated under 18 AAC 80.300, including pesticides.
susceptibility	Likelihood of contamination based on aquifer properties and contaminant behavior.
vulnerability	Likelihood that a water source will become contaminated (use + susceptibility).
Waiver Review Area (WRA)	Area around a water source evaluated for SOC-related activities.
water source	Stream, lake, well, or other origin of water for a public water system.
well	Excavation or shaft from which groundwater can be extracted.
well log	Report documenting underground strata, well construction, and water level data.
zone of influence	Area surrounding a pumping well where water table has been altered due to withdrawal.