





# Final Report

Rapid Environmental Assessment Demonstration Project in Russia

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## **List of Acronyms**

**ACAP** Arctic Contaminants Action Program Arctic Monitoring and Assessment Program **AMAP GPS** Global Positioning System ISS **Initial Site Screening** mg / kg milligrams per kilogram (same as ppm) MAC Maximum Allowable Concentration PΕ Pure Earth Blacksmith Institute ppm parts per million Rapid Environmental Assessment REA Toxic Sites Identification Program **TSIP** 

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# Introduction by the Chair of ACAP Expert Group on Waste

The Arctic Contaminants Action Plan (ACAP, which later became Arctic Contaminants Action Program in 2006) started working on safe storage of Northern Russian obsolete pesticides in 2001. The project addressed 13 regions of the Russian Federation that were either directly by the Arctic Ocean or had an indirect route to the Arctic via rivers. By 2013, 7 000 tonnes of pesticides had been repackaged where necessary and often removed into safer regional storages by the local experts.

The ACAP project on obsolete pesticides did not, however, address the legacy of thousands of storages where the pesticide stockpiles had previously been placed. These storages were of varying type and shape, from barns in former collective farms to simple shacks in the outskirts of human settlements. With improved packaging and removal of pesticides the main hazard was removed, but unknown amounts of pesticides had contaminated the building materials and leached into soils around storages.

The Rapid Environmental Assessment (REA) is a tool developed by the United Nations Food and Agriculture Organization (FAO) for prioritizing pesticide contaminated sites for further intervention. The ACAP REA project was initiated to demonstrate the use of this methodology and train experts to use it in three pilot regions: Arkhangelsk, Komi Republic and Krasnoyarsk. All these regions received support from ACAP for pesticide storage improvements between 2004-2012. The project built capacity to prioritize and identify storage sites where further intervention might be necessary through desk study, sampling and laboratory analysis, in a cost-efficient manner.

ACAP will continue to support the regions in dealing with the remaining problems of obsolete pesticides and seek solutions to environmentally sound final destruction.

Timo Seppälä

Chair of ACAP Expert Group on Waste





## **Executive Summary of Findings**

In September-November 2020 the project teams in the Krasnoyarsk, Arkhangelsk and Komi regions did 9 rapid environmental assessments of sites potentially contaminated with pesticides. The objective of the project was to introduce United Nations Food and Agriculture Organization developed cost-effective Rapid Environmental Assessment technique to detect the remaining threat to human health or the environment from former obsolete pesticides storages. The obsolete pesticides have been removed from old and unsafe storage facilities in the ACAP project between the years 2004-2012.

#### Major findings:

- The number of old and unsafe storage facilities are many in the Russian Federation in the Arctic region. The results indicate that the pesticides management activities provided results and that only limited pollution is detected in surroundings.
- The remaining pollution of the 2 analyzed groups of toxic substances
   (DDT and its transformation products and HCH and its isomers) at these
   9 sites is mainly below the Russian limit values.
- The investigators found contamination that exceeded the safety standards established in Russia for DDD, a transformation product of DDT, only at one out of 9 assessed former pesticide storages.
- These results show that REA methods could be used to conduct inventory of sites potentially contaminated with pesticides at reasonable costs. The project demonstrated the use of the tools and trained experts to continue assessments of remaining storages in the regions.
- The pilot project should preferably be followed up at the national level with a specific program to clean-up similar sites by applying these tools.





#### Tools and methods applied

The rapid environmental assessments followed REA and TSIP protocols. The investigators completed physical descriptions for each site, identified the sources of contamination, estimated the migration of the pollutants and exposure pathways, assessed population at risk. The investigators took topsoil samples at each site, recorded sampling coordinates, took photos and prepared maps. According to the protocol, pesticides that are suspected to be present at the site based on the desk study, are analyzed in the laboratory. If the investigators find some labels, particular colorations, smells that indicate particular pesticides left, during the fieldwork, tests are extended to those as well. Based on available information on the selected sites two groups of the most important typical organochlorine pesticides, DDT and HCH were analyzed. There might be other substances left, but the monitoring was limited to these substances. The descriptions of sites and documents were uploaded to the online database.

At the site "Abandoned warehouse, Pezmeg Village, Kortkeros District, Komi Republic (RU-8441)" investigators collected 10 soil samples that were analyzed for DDT, DDE, Lindane (γ-HCH). All samples showed concentrations below Maximum Allowable Concentrations (MAC) adopted in Russia – 0.1 mg/kg for DDT and 0.1 mg/kg for lindane. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

At the site "Former pesticides warehouse, Mosha village, Nyandomsky District, Arkhangelsk Oblast (RU-8476)" investigators collected 12 soil samples that were analyzed for DDT, DDE, Lindane (γ-HCH). All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

At the site "Former warehouse of toxic chemicals, Syktyvkar town, Komi Republic (RU-8502)" investigators collected 10 soil samples that were analyzed for DDT, DDE, Lindane (γ-HCH). All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.





At the site "Former pesticide warehouse, Vizinga Village of Sysolsky District, Komi Republic (RU-8513)" investigators collected 10 soil samples that were analyzed for DDT, DDE, Lindane (γ-HCH). All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

At the site "Former pesticides warehouse, Prigorodny Village, Kargopol District, Arkhangelsk Oblast (RU-8530)" investigators collected 12 soil samples that were analyzed for DDT, DDE, Lindane (γ-HCH). All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

At the site "Former pesticides warehouse, Rovdino Village, Shenkurskiy District, Arkhangelsk Oblast (RU-8531)" investigators collected 12 soil samples that were analyzed for DDT, DDE, Lindane (γ-HCH). All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

At the site "Former warehouse of pesticides, Atomanovo Village, Sukhobuzimsky District, Krasnoyarsky kray (RU-8543)" investigators collected 8 soil samples that were analyzed for DDT, DDD, DDE, Hexachlorobenzene (HCB), Lindane ( $\gamma$ -HCH),  $\alpha$ -HCH. All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

At the site "Pesticide warehouse in Mokrushenskoye Village of Kazachinsky District, Krasnoyarsky kray (RU-8544)" investigators collected 10 soil samples that were analyzed for DDT, DDD, DDE, HCB, Lindane ( $\gamma$ -HCH),  $\alpha$ -HCH. 3 samples exceeded MACs for  $\alpha$ -HCH, 2 samples exceeded MACs for lindane, 2 samples exceeded MACs for DDD. These results indicate that the site could be a source of health hazard and environmental contamination. A more detailed assessment is recommended in order to assess potential environmental and health risks and plan remediation.





At the site "Former pesticide warehouse, Nakhvalskoe Village of Sukhobuzimsky District, Krasnoyarsky kray (RU-8546)" investigators collected 12 soil samples that were analyzed for DDT, DDD, DDE, HCB, Lindane ( $\gamma$ -HCH),  $\alpha$ -HCH. All samples showed concentrations below MACs. This indicates that the site that was previously cleaned up from pesticides is considered to not require further intervention based on the hazard assessment.

More detailed site descriptions and assessment reports are in Appendix 5.





## Rapid Environmental Assessment Demonstration Project Final Report

## **Project Overview**

The project was successful in demonstration of REA and TSIP protocols and tools. 12 people were trained in REA methods in one training session. 9 REAs were completed, exceeding the objective of conducting 6 site assessments.

## **Project Goal**

The goal of the project is to demonstrate the methods of Rapid Environmental Assessment for assessing sites contaminated with obsolete pesticides.

## **Sponsors and Participants**

The project was initiated and supported by Arctic Contaminants Action Program (ACAP) of the Arctic Council. Arctic Council is the leading intergovernmental forum promoting cooperation, coordination and interaction among the Arctic States, Arctic Indigenous peoples and other Arctic inhabitants on common Arctic issues, in particular on issues of sustainable development and environmental protection in the Arctic. The project was implemented by Pure Earth Blacksmith Institute, New York in cooperation with specialists in Russia.

## **Problem Statement**

Obsolete pesticides (OPs) pose a significant environmental and health concern in the region, stemming from overuse and mismanagement of pesticides during the Soviet era. Many of the chemicals of concern are now deregistered locally, banned internationally or unusable because of long-term storage leading to degradation. It is estimated that around half of the world's quantities of obsolete pesticides can be found in the former Soviet Union. In addition, some industrial sites in the region rank among the world's most polluted places, exposing the populations to pollution from hazardous chemicals and heavy metals. This pollution presents a transboundary issue as pollutants migrate across borders and spread in the Arctic Region.





## **Pure Earth (Blacksmith Institute)**

Pure Earth (Formerly Blacksmith Institute) is an engineering-based charity with head offices in New York and London. Pure Earth is focused on mitigating health risks posed by poorly managed hazardous waste and hazardous chemical contamination in low- and medium-income countries. To date, Pure Earth has implemented more than 50 projects in 20 countries.

An important program of Pure Earth is the Toxic Sites Identification Program (TSIP). This program began in 2009 and is an effort implemented jointly by Blacksmith and the United Nations Industrial Development Organization (UNIDO). The goal of the TSIP program is to identify and rapidly assess contaminated sites that potentially pose human health risks. The TSIP has been supported by the European Commission, the World Bank, the Asian Development Bank and Green Cross Switzerland, among others. To date more than 3,000 contaminated sites have been visited and sampled by trained investigators.

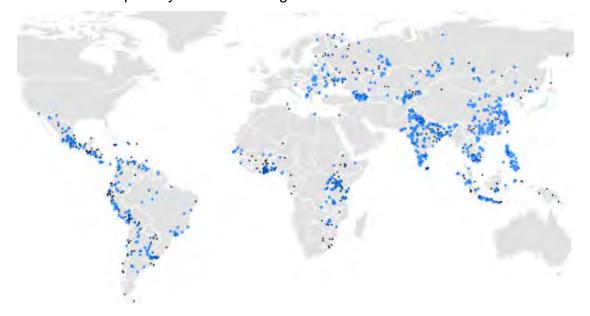


Figure 1. Sites in TSIP database

Figure. 1 shows sites contained in Pure Earth's TSIP database. Blue dots indicate sites that have been visited by trained investigators. Black dots indicate sites that have been identified though not yet visited.

The TSIP utilizes a rapid risk assessment methodology to evaluate risks posed by contaminated sites. As part of an Initial Site Screening (ISS), trained investigators visit sites, collect samples, take photographs and document site history. Completed





ISSs are uploaded into a secure online database where they receive a relative risk ranking to aid in prioritization.

## **Methods**

The Rapid Environmental Assessment (REA) is a tool developed by United Nations Food and Agriculture Organization (FAO) to prioritize pesticide contaminated sites for further intervention. Under contract with FAO in 2012, Pure Earth Blacksmith Institute modified the REA and carried out field trials on pesticide contamination sites in Vietnam. Five separate rapid assessment protocols, including the Blacksmith TSIP Initial Site Assessment, were reviewed. Where appropriate concepts from each were integrated into the REA.

The resulting product is comprised of two distinct phases. The first phase is a "Desk Screen", that utilizes limited site information and pre-existing GIS layers to prioritize sites for visits. Information on the soil type, nearby populations, the slope of the area, pesticide type and quantity and other information are used in an algorithm to determine visit priority. The desk screen is necessary because government or other agencies generally will not have the funds or resources to do site visits and assessments at all sites, so need a way to focus their limited resources on the sites most likely to present significant risks.

The second phase, the REA, is comprised of a site visit and a site-specific sampling and assessment protocol. During a visit of typically 1-2 days, interviews are conducted with people knowledgeable of the site, and then samples are collected, photographs are taken, and a series of objective technical questions are answered in a uniform format. Completed REAs are uploaded into a secure online database. The database uses three separate algorithms to calculate relative risks; specifically risks related to Source, Pathway, and Receptor.

The project was conducted in three regions of Russian Federation: Krasnoyarsky Krai, Arkhangelsk Oblast and Komi Republic. The objective was to conduct at least two assessments in each region.

The project partners and potential investigators were identified in each region. The project started with a training workshop in Krasnoyarsk in order to introduce the





project and train investigators of all three regions. Appendixes 1 and 2 show the REA input fields and database screens.

After the workshop the investigators conducted the field assessments. The collected soil samples were submitted to a certified laboratory. The collected data and results of the analyses were uploaded to the REA Database maintained by FAO and also to the database of the Toxic Sites Identification Program maintained by Blacksmith Institute/Pure Earth. The data will be verified for the compliance with the REA protocol and assessments will be approved by qualified personnel of Blacksmith Institute Pure Earth.

## **Program and Action Plan**

The main project activities and indicators are listed below.

- 1. One regional training workshop
- 2. At least 90 soil samples tested for obsolete pesticides in a certified laboratory
- 3. At least 6 site assessments according to REA protocol

#### **Project Deliverables:**

- 9 site assessments reports
- Project Narrative report
- Project Financial report

## **Project Background**

Pure Earth Blacksmith Institute operated in Russia since 2004 and since 2009 implemented TSIP in Russia and assessed 175 sites contaminated with various persistent pollutants. In 2013-2015 Pure Earth Blacksmith Institute in collaboration with FAO implemented EU-funded project «Improving capacities to eliminate and prevent recurrence obsolete pesticides as a model for tackling unused hazardous chemicals in the former Soviet Union» (CP/RER/040/EC). This project included assessments of sites contaminated with obsolete pesticides and development of REA protocol for that purpose. The developed REA protocol was largely based on





TSIP ISS protocol for assessment of contaminated areas, but was designed to provide more accurate assessment of pesticide contamination.

Earlier in the Russian Federation, from 2001 to 2012, the ACAP / CMP Russia Program "Environmentally sound management of obsolete pesticides in the Russian Federation" was implemented. The Program included the inventory of prohibited and obsolete pesticides, their identification, repackaging, transportation to safe storage sites, repair and construction of new safe storage sites. This work was conducted in thirteen regions of Russian Federation. About 7000 tons of obsolete pesticide stocks, including DDT, were discovered. In some ways this work was similar to TSIP activities.

Based on the positive experience of project ACAP / Russia "Environmentally sound management of obsolete pesticides in the Russian Federation", it was decided to implement in Russia the demonstration project to train environmental specialists the internationally accepted REA site assessment protocol. This project was scheduled for implementation in 2020.

The ACAP/ Blacksmith Institute Rapid Environmental Assessment Demonstration Project included training of specialists and conducting assessments in 3 regions that participated in previous ACAP project (2001-20012): Arkhangelsk Oblast, Komi Republic and Krasnovarskiy Krai.





## **Project Implementation**

### **Preparatory Stage**

Several agreements with the partners of the selected regions were signed to coordinate the project work. The project implementation was coordinated by Dr Petr Sharov, Regional Director of the Blacksmith Institute Program in Eastern Europe and Central Asia and Marina Klimova, Project Coordinator. The project preparations and implementation were coordinated with Timo Seppala, the Chairman of the ACAP Expert Group on waste.

It was decided to hold a two-day workshop in Krasnoyarsk. This region received the highest performance rating in ACAP/Russia Project (2001-2012). Also, it was logistically easier to gather workshop participants in Krasnoyarsk.

In the preparatory period Marina Klimova sent letters to the interested project participants and Aleksandr Pokhodin, First Vice Minister of Agriculture and Trade of Krasnoyarskiy Krai, to inform about the planned workshop, and to invite them to participate. After obtaining consent from officials to hold the workshop and practical training in Krasnoyarsk, the Workshop Agenda (Appendix 03) was developed and on July 2, 2019, invitation letters were sent to the selected regions of the Russian Federation with invitations to participate in the ACAP/Blacksmith Institute Project. At that time the main project participants had been identified; two of them were actively involved in the previous ACAP/Russia Project: Kuligin V.D. (Krasnoyarsk) and Shestopalova N.S. (Komi Republic), and Kosareva E.N. (Arkhangelsk, replaced the Director of the FGBU station of the agrochemical service "Arkhangelskaya" G.E. Antropova, who retired during the project preparation). The project participants received information letters, Workshop Agenda, and "Investigator 's Guide to Rapid Environmental Assessment (REA)" in Russian.

As per ACAP recommendation the project team also invited E.V. Tretyakov (Director of the Regional Center of the Stockholm Convention in the Russian Federation, Deputy Director of the Novosibirsk Institute of Organic Chemistry N. N. Vorozhtsov Siberian Branch of the Russian Academy of Sciences, Novosibirsk ) and A. A. Nefedov (Senior Researcher at Novosibirsk Institute of Organic Chemistry ) to





participate in the workshop. It turned out because of their schedules and COVID complications they could not come in person, so they joined online using zoom.

## **Training Workshop**

The ACAP "Rapid Environmental Assessment Demonstration Project" workshop was held on 23-24 August 2020 in Krasnoyarsk Hotel. The workshop organization followed Government and World Health Organization instructions regarding COVID safety. Everybody's temperature was scanned and the room allowed enough space between people. In addition to main project participants the project team invited Krasnoyarsk specialists in agriculture and environmental assessment to participate. The full list of the workshop participants is presented in Appendix 4.

On the first day the participants learned about:

- the objectives, structure of the ACAP / Blacksmith Institute,
- the role of the Project participants and government agencies,
- REA methods
- current efforts and projects related to the safe management of stockpiles of obsolete pesticides: storage, disposal, impact on the environment and human health, cleanups.







Figure 2. Preparing for the workshop



Figure 3. Marina Klimova opens the workshop







Figure 4. Petr Sharov delivers a presentation at the workshop



Figure 5. Workshop participants







Figure 6. Demonstration of personal protective equipment

Workshop participants received in electronic and printed forms "Investigator's Guide to Rapid Environmental Assessment" and "TSIP Investigator's Handbook". These documents describe the process of REA, collecting data and uploading to the online database.

There were 4 presentations of current efforts and projects on the problem of obsolete pesticides in different regions, including the overview of the ACAP/Russia project. After these presentations, the workshop participants actively discussed the problem of managing stocks of obsolete pesticides and agreed that presently there is no





proper control over the storage and movement of old stocks of pesticides and potential cleanups.

On the second day in the morning the participants went to Minino Village in Emelyanovsky District to practice field activities of site characterization, soil sampling, compliance with personal safety rules, etc. The participants were given protective suits, goggles, gloves, boots, shovels, and containers for soil sampling. Dr V.N. Romanov, Researcher of the "Krasnoyarsk Research Institute of Agriculture" provided physical and historical description of the site to the workshop participants. During the field session P. Sharov showed how to properly assess the site, assess migration of contaminants, exposure pathways, accessibility, roads, proximity to residential and industrial areas, water bodies, etc. He showed how to take coordinates of sample locations and sectors using Global Positioning System (GPS), how to define different sampling sectors, and showed techniques of collecting target and composite soil samples.



Figure 7. Workshop participants in the field







Figure 8. Taking soil samples



Figure 9. Writing sample log







Figure 10. Taking GPS coordinates of the soil sample and writing sample log

After the completion of the field work, the workshop participants visited the Accredited Laboratory of the Center for Environmental Research and Audit, which has all the necessary equipment for sampling and analysis of chemicals of any hazard class. This laboratory was later used to analyze the samples collected during assessments in Krasnoyarskiy kray.



Figure 11. Visiting the Laboratory of the Center for Environmental Research and Audit

In the afternoon the workshop was continued. Dr Sharov demonstrated how to upload the information obtained from the demo site assessment into the online database. At the end of the workshop the participants were given Certificates of Completion.







Figure 12. Distribution of Completion Certificates

#### **Site Assessments**

The next stage of the work was to identify sites for assessment in three selected regions of the Russian Federation and conduct the assessments. In each region three sites were selected and assessed. For selection of the sites the researchers used knowledge from the previous ACAP/Russia project "Environmentally sound





management of obsolete pesticides in the Russian Federation". The researchers found that there were significant changes over the past 8-10 years since the previous ACAP Project. Many pesticide storage sites, including warehouses, were destroyed, areas were leveled, often occupied by various buildings, pesticides were removed, the locations where the removed pesticides were taken often unknown.

When selecting sites the project participants used the guidance from the REA manuals, to take note of the following criteria:

- The presence of landfills, warehouses, including destroyed, former storage sites for stocks of obsolete pesticides;
- Stocks of obsolete pesticides in storage areas (warehouses, dumps, etc.);
- Information on the presence in the of pesticides, persistent organic pollutants, including DDT;
- Accessibility of sites for survey;

After conducting field assessments the collected soil samples were sent for analyses to two laboratories:

- FGBU State Agrochemical Service Center "Vologda" ACCREDITED
  TESTING LABORATORY (160555, city of Vologda, Student Street, 11,
   <u>agrohim351@mail.ru</u>.) Samples from the Komi Republic and Arkhangelsk
  Region were sent here.
- LLC "Center for Environmental Research and Audit" Accredited Testing Laboratory (660041, Krasnoyarsk Territory, Krasnoyarsk, Svobodny Ave., 72a, room 115, ceria@list.ru). Samples from the Krasnoyarsk Territory were sent here.

After the analyses of the soil samples were completed the site assessment information was finalized in the database and translated into English. The Site assessment reports are provided in Appendix 5.





## **Major findings**

- The number of old and unsafe storage facilities are many in the Russian Federation in the Arctic region. The results indicate that the pesticides management activities provided results and that only limited pollution is detected in surroundings.
- The remaining pollution of the 2 analyzed groups of toxic substances (DDT and its transformation products and HCH and its isomers) at these 9 sites is mainly below the Russian limit values.
- The investigators found contamination that exceeded the safety standards established in Russia for DDD, a transformation product of DDT, only at one out of 9 assessed former pesticide storages.
- These results show that REA methods could be used to conduct inventory of sites potentially contaminated with pesticides at reasonable costs. The project demonstrated the use of the tools and trained experts to continue assessments of remaining storages in the regions.
- The pilot project should preferably be followed up at the national level with a specific program to clean-up similar sites by applying these tools.

### **Lessons Learned**

The project showed that REA protocol could be used in Russia for assessment of sites contaminated with obsolete pesticides.

## **Next Steps**

The next step is to conduct a close-out workshop in a different Arctic region of Russia to share the project results and provide additional training to more people.

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## **Annex 1. REA field form (English and Russian)**

## Предварительное исследование

Desk Screen

Имя участка	:			
(Site Name)				
Страна:				
(Country)				
Регион:				
(Province)				
Широта:		<del></del>		
(Latitude)				
Долгота:				
(Longitude)				
Основной п	естицид:			
(Suspected P	rimary Pestici	de)		
Загрязнител	ь1 (Contamii	nant 1):	<del></del>	
Проба#	Среда	Целевая/Сборная	Результаты	Кол-во человек,
(Sample #)	пробы	(Taraeted/	(Posults)	подверженных

,	D I (COITCAITIII)		<del></del>	.,
Проба# (Sample #)	Среда пробы (Sample Media)	Целевая/Сборная (Targeted/ Composite)	Результаты (Results)	Кол-во человек, подверженных риску воздействия загрязнителей (Population at Risk)
Проба 1 (Sample 1)				
Проба 2 (Sample 2)				
Проба 5 (Sample 5)				
			Кол-во человек,	
			которые также	
			могут быть	
			подвержены риску	
			(Additional	
			population at risk)	
			Суммарное кол-во	
			человек (Total)	





## Возможная среда пробы (Possible Sampling Media)

вода - питьевая (мкг/л)	почва – в сельскохозяйственной зоне (мг/кг)
вода - для рыбалки (мкг/л)	почва - в промышленной зоне (мг/кг)
вода - для ирригация (мкг/л)	моча (мкг/л)
воздух - наружный (мкг/м3) воздух - на рабочем месте (8 ч) (мкг/м3)	кровь (мкг/л) волосы (мг/кг)
почва - в жилой зоне (мг/кг)	еда (мг/кг)
HO4Ba B MUNOUI SONE (MI) KI)	сда (MI/NI)
Water - Drinking (ug/l or ppb)	Soil - Agriculture (mg/kg or ppm)
Water - Fishing (ug/l or ppb)	Soil -Industrial (mg/kg or ppm)
Water - Irrigation (ug/l or ppb)	Urine (ug/l)
Air - Outside (ug/m3)	Blood (ug/dl)
Air - Workplace (8hrs) (ug/m3)	Hair (ppm)
Soil - Residential (mg/kg or ppm)	Food
Время последнего использования пестиці	идов:
(Last Time Pesticides were used)	
Частота использования пестицидов:	<del></del>
(Frequency of Pesticide Use)	
Общее описание General Background	
Исследователь:	
(Site Investigator)	
(Количество исследований, проведенных (Number of Investigations Completed Previo	
Дата оценки (день/месяц/год):	
(Investigation Date (DD/MM/YY))	
Почему на этом участке предполагается за	агрязнение пестицидами?
(For what reason is the site suspected to be	•
О Место утечки пестицидов	3 (Location of pesticide spillage)
○ Сельскохозяйственное пр	ооизводство (Agricultural production)
○ Земля использовалась дл	ıя хранения пестицидов
(The land been used a	s a pesticide storage site)
○ Земля использовалась дл	пя формирования пестицидов
(The land been used a	s a pesticide formulation site)
○ Земля использовалась дл	ıя захоронения
(The land been used a	s a hurial site)





Владельцы направления:(Site Owner)	
Контактная информация владельца участка: (Site Owner Contact Information)	
(Site Owner contact injoirmation)	
Ближайшая больница: (Nearest Hospital/ Health Clinic)	
дополнительная информация: (Additional Information)	
<b>Тип и количество</b> (Type and Quantity)	
Другие загрязнители (Other Contaminants)	
Время последнего использования пестицидов (Last time pesticides were in use?)  О до 30 дней (Within 30 days)	
○ до 1 года (Within 1 year)	
○ 1-2 года <i>(1-2 years)</i>	
○ 2-5 лет <i>(2-5 years)</i>	
○ 5-10 лет <i>(5-10 years)</i>	
$\bigcirc$ более 10 лет (More than 10 years)	





Частота использования пестицидов?
(Frequency of pesticide use?)
Однократно (Only once)
○ Иногда (Occasional use)
○ Часто (Frequent use)
$\bigcirc$ Участок использовался/используется для хранения пестицидов (The site wa
is used for storage of pesticides)
Пестициды до сих пор используются ? Are pesticides still used?
○ Нет <i>(No)</i>
○ Да <i>(Yes)</i>
Количество используемого пестицида? (What quantity of pesticides were used?)
○ Малое количество (Small Quantity)
○ Средний Количество (Medium Quantity)
○ большое количество (Large Quantity)
O Very Large quantity (Very Large)
Масштаб загрязнения на участке (Describe the extent of staining on the site)
○ Нет признаков пятен (No sign of staining)
○ Небольшое окрашивание/пятнистость (Surface slightly discoloured / stained)
○ Значительное окрашивание из-за пестицида (Surface completely discoloured due to pesticide)
○ Поверхность видимо насыщена пестицидом (Surface saturated with pesticide
(visibly moist))
Примерная площадь загрязненной территории? кв. м. (What is the approx. surface area in m2 suspected of being contaminated?)
Глубина загрязнения (м)? (What is the estimated depth of contamination (in metres)?)
Проводилась ли оценка глубины распространения загрязнения? м (Was a test pit dug to determine depth of contamination?)
○ Нет <i>(No)</i>
○ Да <i>(Yes)</i>





Распространено ли загрязнение на другие среды? (Has the contamination spread into more than one media?)
○ Нет <i>(No)</i>
○ Да <i>(Yes)</i>
Присутствует ли сильный запах?
(Is there a strong smell associated with the site attributed to contamination?)
○ Нет <i>(No)</i>
○ Да <i>(Yes)</i>

Загрязнитель 2 (Contaminant 2):

Проба# (Sample #)	Среда пробы (Sample Media)	Целевые/Сборная (Targeted/ Composite)	Результаты (Result)	Кол-во человек, подверженных риску воздействия загрязнителей (Population at Risk)
Проба 1 (Sample 1)				
Проба 2 (Sample 2)				
Проба 3 (Sample 3)				
Проба 4 (Sample 4)				
Проба 5 (Sample 5)				
			Кол-во человек, которые также могут быть подвержены риску (Additional population at risk)	
			Суммарное кол-во человек <i>(Total)</i>	





## Риск распространения

(Release Risk)

	еднее ежегодное количество l average rainfall in mm (75001	о осадков в мм (7500мм максимум) тт тах))
Означает ех	○ (низкая <4.5 м в секунду	унду) (Medium 4.5 - 7.5 m per sec)
Средняя тем	пература лета (Average temp	erature summer)
Средняя тем	пература зимы (Average tem <sub>l</sub>	perature winter)
Есть ли на уч or ponds?)	іастке постоянные водоемы? ○ Нет <i>(No)</i> ○ Да <i>(Yes)</i>	(Is there permanent surface water on the site i.e. pools
Для чего исп	юльзуется сегодня? (What is i ○ Другое (Other) ○ Неизвестно (Unknown) ○ Ирригация (Irrigation)	it used for?) ○ Рыболовство (Fishing) ○ Купание (Bathing/ Washing) ○ Питьевая (Drinking)
Есть ли грунт (Is there evide	говые воды? ence of a high water table or g ○ Нет (No) ○ Да (Yes)	round water?)
<del>-</del>	ближайшего водного слоя? _ depth to the top of the water to	
	и участок в пойме? a flood plain?)	





	до олижаишего колодца? e closest river or water body?)						
(VVIIETE IS LIT	<ul><li>○ Нет воды поблизости (No</li></ul>	water source in vicinity)					
	•						
	○ В 500 м от загрязнения (Within 500m of contamination) ○ В 100 м от загрязнения (Within 100m of contamination)						
	<ul><li>○ В 100 м от загрязнения (W</li><li>○ В 50 м от загрязнения (W</li></ul>	•					
	·	нный участок (Running through the contaminated site)					
Расстояние	до ближайшего колодца?						
	ne closest well?)						
	○ Нет колодца поблизости	(No well in vicinity)					
	○ В пределах 500 м от загр	язнения (Within 500m of contamination)					
	○ В пределах 100 м от загр	язнения (Within 100m of contamination)					
	○ В пределах 50 м от загря:	знения (Within 50m of contamination)					
Направлени	ıe?						
(In which dir	rection?)						
	○ Север <i>(North)</i>	○Юг (South)					
	○ Северовосток	○ Югозапад (Southwest)					
	(Northeast)	○ Запад <i>(West)</i>					
	○ Восток <i>(East)</i>	○ Северозапад (Northwest)					
	○ Юговосток (Southeast)						
Известно ли угодий?	и или предполагается что грун	товые воды текут в сторону колодцев, рек, болот,					
• • •	vater known or suspected to flow	v towards identified receptors eg wells, wetlands, rivers					
fields etc.?)							
	○ Не знаю (Do Not Know)						
	○ Нет <i>(No)</i>						
	○ Да <i>(Yes)</i>						
Тип почвы (What is the	e soil tune?)						
, TT I GE IS CITE	○ Латериты <i>(Lateritic)</i>	○ Суглинок <i>(Loam)</i>					
	○ Глина <i>(Сlау)</i>	○ Песок (Sandy)					
	<ul><li>Вулканические</li></ul>	○ Галька (Gravel)					
	(Volcanic)	- 137.5.13 (5.315)					
	( , 0.000)						





Глубина поче							
(What is the d	-	soil to the strata	beneath?)				
	○ 1m			○ 5m			
	○ 3m			○ <b>10</b> m		○ >10m	
Тип скалисто (What is the	•	•					
	○ Oca	дочная (Sedimen	tary rock)				
	O Mea	гаморфическая <i>(I</i>	Metamorp	hic rock)			
	○ Вул	каническая ( <i>Igne</i>	ous rock)				
	· ·	ителей относител n of the contamin			ope?)		
	○ Вы⊔	ue уровня земли is steep)	и уклон кр	рутой <i>(Conto</i>	aminants (	above groui	nd level and slope
	⊖Наи	или ниже уровня level and slope is	•	клон крутоі	й (Contam	inants at oi	r below ground
	○ Вы⊔	ue уровня земли slope is intermed		оедний <i>(Cor</i>	ntaminants	s above gro	und level and
	⊖Наи	или ниже уровня level and slope is	•	•	ий (Conta	minants at	or below ground
	○ Вы⊔	ue уровня земли <i>flat)</i>	и уклона і	нет <i>(Contam</i>	ninants abo	ove ground	level and slope is
	⊖Наи	или ниже уровня and slope is flat)	-	клона нет (	Contamino	ants at or b	elow ground level
	○ He s	внаю (Do Not Kno	ow)				
	ınd surf	в этом месте кан ace been disturbe					
	○ Нет	(No)					
	ОДа	(Yes)					
=		месте аварии со significant releas		· · ·	знением с	реды?	
	○ Нет	(No)					
	ОЛэ	(Vac)					



(If Liquid, identify dilutant)



Как применялись пестициды? (How were the pesticides applied?) ○ вручную (Ву Hand) О механически, укажите способ (Mechanically, specify machine) Какое основное направление ветра? (What is the prevailing wind direction?) ○ Север (North) ○ Юг (South) ○ Северовосток ○ Югозапад (Southwest) ○ Запад (West) (Northeast) ○ Восток (East) ○ Северозапад (Northwest) ○ Юговосток (Southeast) Загрязнитель 1 (Contaminant 1) Если без контейнеров, то выберите (Number of Containers): Если свалено в груды, то оцените количество (If no containers, select) ○ кучи (Uncontained piles) ○ Следы и остатки (Residue or spills only) Если свалено в груды, то оцените количество (If Uncontained piles, estimate quantity) размер контейнеров (упаковки) (Size of Containers (in litres)) тип контейнера (упаковки) (Type of Container) ○ Пластик. Банка (Plastic pail) O Метал или Бочка (Steel or metal ○ Картон (*Paper container*) ○ Метал *или* Банка (Metal can or pail) ○ Другое (Other) ○ Пластик. Бочка (Plastic drum) формула (Formulation) ○ Твердая (Solidified) ○ Порошок (*Powder*) ○ Жидкая (Liquid) если раствор, то укажите растворитель:





	rна, то укажите концентрацию г centration of Pesticide if known)	пестицида:		
возраст кон				
(Container A	- · _	0.10.20		
	○ 1-5 года <i>(years)</i>	○ 10-20 года <i>(years)</i>		
	○ 5-10 года <i>(years)</i>	○ >20 года <i>(years)</i>		
состояние к	•			
(Container Co	•	O. E (Dank)		
	○ Отличное (Excellent)	○ Плохое <i>(Poor)</i>		
	○ Хорошее <i>(Good)</i>	○ Очень плохое (Very Poor)		
	○ Среднее <i>(Moderate)</i>			
метод иден (Identificatio	n Method)	unanua (Good Jagibla Jahala)		
	<ul> <li>○ Хорошая, читаемая маркировка (Good, legible labels)</li> <li>○ Перечень, записи (Inventory or written records)</li> <li>○ Плохоразличимая маркировка (Unreliable labels)</li> </ul>			
		овка ( <i>Onreliable labels)</i> ре описание ( <i>Verbal or informal records</i>		
	<ul> <li>○ словесное неофициально</li> </ul>	e officance (verbui of injoinful records)		
местонахох	кдение			
(Location)				
		ıей (Inside building with good roof)		
	•	й (Inside building with poor roof)		
	○ Снаружи (Outdoors)			
	○ Под землей (Below ground	d)		
если здани (If building,	е, выберите из списка			
(i) building,	○ Хорошие стены ( <i>Good Wa</i>	lls)		
	·	е стены (Incomplete or poor walls)		
	выберите из списка			
(If cover, se	<u></u>	инкотоо мешодох		
	○ Тарпаулин или пластик в хорошем состоянии (Tarpaulin or plastic in good condition)			
	<ul><li>○ Иное или плохой покров</li></ul>	•		
	○ Нет покрова <i>(No cover)</i>	/		





# Риск для здоровья

(Receptor Risk)

	льзования в ближа land use for the fore	**				
(vviiat is the i		-	/D	1		
	$\bigcirc$ Удаленная незастроенная территория (Remote wilderness)					
	○ Промышленна	ıя - включая длительн	юе использование пе	стицидов (Industrial		
	(inc. for co	ntinued use of pesticid	es))			
○ Легкая промышленность/коммерция (Light Industrial/Commercial)						
○ Сельское хозяйство (Agricultural)						
	○ Парк (Parkland)					
	○ Жилая зона (Housing / residential)					
○ Школы, детские сады, больницы (Critically Sensitive Receptors (Schools,						
	Hospitals, etc))					
	·					
Укажите чис	ло людей в следую	ощих категориях				
(List the num	ber of people in the	following categories)				
	На участке <i>(Оп</i>	В пределах 50 м	В пределах 100 м	В пределах 500 м		
	Site)	(Within 50 Meters)	(Within 100	(Within 500		
	,	,	Meters)	Meters)		
Живут						
1						
(Live)						
Работают						
(Work)						
Посещают						
(Visit)						

	ка для сельскохозяйственных животных или охотничьей дичи? e to animals that are later consumed by humans?)
○ c/	х животные/рыба на участке (food animals/ fish on site)
○ c/	х животные/рыба в пределах 100 м от участка (food animals/ fish within
100n	n)
○ ec	ть доступ домашних животных (accessible to occasional food animals)
Расстояние до мор	ской или пресноводной охраняемой территории?
What is the distance	e to a sensitive marine or freshwater ecological area?
O >	5 км <i>(&gt; 5 km)</i>
01	км до 5 км <i>(1 km to 5 km)</i>
O 30	00 м до 1 км <i>(300 m to 1 km)</i>
$\bigcirc$ 0	до 300 м (0 to 300 m)





Расстояние до места забора питьевой или технической воды (How close is water from the site to be used as source of potentially contaminated drinking or bathing water)

bathing water)				
○ > 5 км <i>(&gt; 5 km)</i>				
$\bigcirc$ 1 км до 5 км (1 km to 5 km)				
$\bigcirc$ 300 м до 1 км <i>(300 m to 1 km)</i>				
○ 0 до 300 м (0 to 300 m)				
В каком направлении? (In which direction?)				
○ Север <i>(North)</i>	○ Юг (South)			
○ Северо-восток (Northeast)	○ Юго-запад (Southwest)			
○ Восток <i>(East)</i>	○ Запад <i>(West)</i>			
○ Юго-восток (Southeast)	○ Северо-запад (Northwest)			
Возможен ли контакт загрязненной почвы с лк (What is the water used for?) ○ Другое <i>(Other)</i> ○ Неизвестно <i>(Unknown)</i>	одьми?			
О Ирригация (Irrigation)				
○ Рыболовство (Fishing)				
© Купание (Bathing/ Washing)				
© Питьевая ( <i>Drinking)</i>				
Возможен ли контакт загрязненной почвы с лк (Is human ingestion of contaminated soils possibl				
○ Да <i>(Yes)</i>				
Опишите пастбище вокруг загрязненной терри (Describe the grazing pattern around the contam)	·			
○ Животные не пасутся в предел	лах 100 м от участка (No animals graze within			
100m of the area)				
○ Животные пасутся в пределах 100m of the area)	○ Животные пасутся в пределах 100 м от участка (Animals graze / feed within 100m of the area)			
○ Животные пасутся в пределах of the area)	: 10 м от участка (Animals graze / feed within 10n			
·	енном участке (Animals graze / feed in the			





	кохозяйственные поля от загрязненной территории crops are produced from the contaminated area)
(Describe now jury	○ Не расположены в пределах 100 м
	(No crops are produced within 100m)
	○ Расположены в пределах 100 м (Crops are produced within 100m
	of the contaminated area)
	<ul><li>○ Расположены в пределах 10 м</li></ul>
	(Crops are produced within 10m of the contaminated area)
	<ul><li>○ Расположены на загрязненной территории</li></ul>
	· · · · · ·
	(Crops are produced in the contaminated area)
В случае загрязне	ния воды, есть ли альтернативное водоснабжение?
(In the event that and bathing readil	water on-site is contaminated, is an alternative water supply for drinking y available?)
	$\bigcirc$ Не подозревается загрязнение в воде (Water not suspected of
	being contaminated)
	○ Нет <i>(No)</i>
	○ Да (Yes)
	кный контакт с водой, осадками или почвой? with contaminated surface water, groundwater, sediments or soils
anticipated? )	
	○ Нет <i>(No)</i>
	○ Да <i>(Yes)</i>
доминирующих в	•
(now jur away are	crops, animals or humans downwind of the site?)
	○ Не расположены в пределах 100 м
	(No crops are produced within 100m)
	○ Расположены в пределах 100 м (Crops are produced within 100m
	of the contaminated area)
	○ Расположены в пределах 10 м
	(Crops are produced within 10m of the contaminated area)
	<ul><li>Расположены на загрязненной территории</li></ul>
	(Crops are produced in the contaminated area)





: : •	загрязненной территории для людей he contaminated area like?)
•	$\supset$ Контролируемый ограниченный доступ (Controlled access; entry
а	lifficult)
	Удаленная местность, менее доступна (Remote locations; less
a	accessible)
	Умеренный доступ (Moderate access; entry more difficult)
	🗅 Легкий доступ (Easy access; few barriers to entry)
Насколько местное на т.п.)	селение зависит от местных природных ресурсов (вода, еда и
•	of local people on natural resources for survival (i.e., food, water, shelter, etc.))
(	○ Люди используют ресурсы в пределах 200 м от участка (People use resources from within 200m of the site)
(	О Люди используют ресурсы в пределах 50 м от участка (People use resources from within 50m of the site)
	○ Люди используют ресурсы в пределах 20 м от участка <i>(People</i>
	use resources from within 20m of the site)
	🗅 Люди используют ресурсы на участке
	(People use resources from the site)
	стительного покрова загрязненной территории over over the contaminated area)
(	Участок покрыт бетоном и т.п. (The site is covered by a concrete slab or other type of engineering)
	Э Трава и иная растительность
	(There is complete grass cover and other vegetation)
	Редкий травянистый покров (There is sparse grass cover)
	Голая земля (The contaminated area is bare)





# **Annex 2. REA Key Data Input Screens**







#### General Background

Desk Screen General Background Type an	d Quantity Release Risk Receptor Risk File Uploa	Prmt View	Notes Box
Name of Investigator	Ruzanna Grigoryan		
Number of REAs completed by investigator	2		
Investigation Date (DD/MM/YY)	27/08/14		
Why is the site believed to be contaminated?	The land has been used as a pesticide storage site	₹	
Site Owner	Private		
Site Owner Contact Information	Not identified		
Nearest Hospital / Health Clinic	Vardenis hospital and Vardenis policinic	1	
Is the REA complete?	Vardenis nospital and Vardenis policinic  Yes ▼		
Has anyone conducted repackaging, remediation or other cleanup work at the site?			
Physical Description / Additional Information	Prior industrial area near the site, which is agricultural now. There are no walls or fences surrounding the ruins. There is some staining on the surface of the area (seems to be		

40





## Type and Quantity

Desk Screen	General Background Type and Qu	antity	1	Relea	se R	isk Re	ceptor	Risk	File Upl	oad	Print View	Notes Box
Score - Priority		8 -	L	ow								
Other Contami	nants	He	xac	chlor	(not	in list), a-	β-, γ-	нсн				
Are pesticides	still used?	N	0	•								
Quantity of pes	sticide use	M	ledi	um	•							
Extent of staini	ng on the site	S	urfs	ace s	lighth	discolor	ed / st	ained		7		
Approx surface	e area of the contaminated site	1	00 -	- 500	m2			•				
	Exact surface area (if know	m) 10	0.0	0		sq mete	TS					
Estimated deptl	n of contamination					meters						
Was a test pit d	lug to determine depth of contamination	1? N	0	•								
Has the contam	nination spread into more than one med	ia? N	o	•								
Is there a strong attributed to con	g smell associated with the site ntamination?	N	o	٧								





#### Release Risk

Desk Screen	General Background	Type and Quantity	Release Risk	Receptor Risk	File Upload	Print View		
			12 - MEDIUM	1				
Annual Averag	e Rainfall		453 mm (	max 7500)				
Mean Annual V			Low < 4.5 m per sec ▼					
	erature Summer		18 °C					
Average Tempe			-5 °C					
	ent surface water on the	site	Yes V					
(i.e. pools or po			102					
and Property		What is it used for?	Imination	¥				
Is there exidence	e of a high water table or		Yes ▼					
Depth of the wa		ground water.	165	•				
Deput of the wa		most double (if longuary)	ina mata	•				
To the site in a B		xact depth (if known)	7	la .				
Is the site in a f			No ▼	17.007.07	-1			
	sest river or water body		No water source		▼			
Location of clos	sest well	2	No well in vicin	ity				
		In which direction?	- T					
	known or suspected to		Yes	▼				
The second secon	tors, e.g. wells, wetlands	, rivers, fields?						
Depth of soil to	the strata beneath		•					
Bed Rock Type				7				
Position of the	contaminant(s) relative to	the slope	At or below gro	ound level and slo	oe is flat	¥.		
	surface been disturbed,	The second secon	No V					
Has the ground		for example, to install	No ▼					
Has the ground drainage channe	els, pipes, cables, etc. sin	for example, to install ce contamination?	No ▼					
Has the ground drainage channe Have there beer	els, pipes, cab <mark>l</mark> es, etc. sin 1 any significant releases	for example, to install ce contamination?	No ▼		•			
Has the ground drainage channe Have there beer	els, pipes, cables, etc. sin	for example, to install ce contamination?			•			
Has the ground drainage channe Have there beer How were the p	els, pipes, cables, etc. sm n any significant releases pesticides applied?	for example, to install ce contamination?	No ▼ By Hand	1	•			
Has the ground drainage channe Have there beer How were the p What is the prev	els, pipes, cables, etc. sin i any significant releases pesticides applied? vailing wind direction?	for example, to install ce contamination? such as accidents?	No ▼ By Hand		•			
Has the ground drainage channe Have there beer How were the p What is the prev	els, pipes, cables, etc. sm n any significant releases pesticides applied?	for example, to install ce contamination? such as accidents?	No ▼ By Hand		•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire	els, pipes, cables, etc. sin any significant releases pesticides applied? vailing wind direction? ection to nearest habitation	for example, to install ce contamination? such as accidents?	No ▼ By Hand		•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire Key Pollutant	els, pipes, cables, etc. sin i any significant releases pesticides applied? vailing wind direction? ection to nearest habitation	for example, to install ce contamination? such as accidents?	No ▼ By Hand  East ▼ Southwest ▼		•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire	els, pipes, cables, etc. sm n any significant releases pesticides applied? wailing wind direction? ection to nearest habitation Details ntainers	for example, to install ce contamination? such as accidents?	No ▼ By Hand  East ▼ Southwest ▼	) 	•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire Key Pollutant	els, pipes, cables, etc. sm n any significant releases pesticides applied? vailing wind direction? ection to nearest habitation Details ntainers	for example, to install ce contamination? such as accidents?	No ▼ By Hand  East ▼ Southwest ▼  DDT  Uncontained p		•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire Key Pollutant	els, pipes, cables, etc. sm n any significant releases pesticides applied? vailing wind direction? ection to nearest habitation Details ntainers	for example, to install ce contamination? such as accidents? n? f no containers, select iles, estimate quantity	No ▼ By Hand  East ▼ Southwest ▼  DDT  Uncontained p	ic meters	•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire Key Pollutant	els, pipes, cables, etc. sm n any significant releases pesticides applied? vailing wind direction? ection to nearest habitation Details ntainers	for example, to install ce contamination? such as accidents? n? f no containers, select iles, estimate quantity Size of Containers	No ▼ By Hand  East ▼ Southwest ▼  DDT  Uncontained p	c meters	•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire Key Pollutant	els, pipes, cables, etc. sm n any significant releases pesticides applied? vailing wind direction? ection to nearest habitation Details ntainers	for example, to install ce contamination? such as accidents? in? f no containers, select iles, estimate quantity Size of Containers Type of Container	No V By Hand  East V Southwest V  DDT  Uncontained p cubi	ic meters	•			
Has the ground drainage channe Have there beer How were the p What is the prev What is the dire Key Pollutant	els, pipes, cables, etc. sm n any significant releases pesticides applied? vailing wind direction? ection to nearest habitation Details ntainers	for example, to install ce contamination? such as accidents? in? f no containers, select iles, estimate quantity Size of Containers Type of Container Container Age	By Hand  East ▼ Southwest ▼  DDT  Uncontained p	c meters	•			
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# Receptor Risk

Desk Screen General Background Type and Quantity Re	elease Ris	k Receptor	Risk File Upload	Prmt View	Notes Box			
Score - Priority	3 - LO	W						
Land use for the foreseeable future	Criti Hou Indu Ligh Rem	sing / resident	continued use of pe		)			
List the number of people in the following categories		On Site	Within 50 meters	Within 100 met	ters Within 500 met			
	Live							
	Work				80			
	Visit		10	30	160			
	Total	across all cate	gories					
Site accessibility to animals that are later consumed by humans	food a	nimals / fish or	n site					
Distance to a sensitive marine or freshwater ecological area	> 5 km 🔻							
	- O KIII							
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water	1 km to							
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water In which direction	1 km to	o 5 km ▼						
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for	1 km to	o 5 km ▼						
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?	1 km to 2 Northw 2 Unkno	vest ▼	<u></u>					
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area	1 km to 2 Northw 2 Unkno Yes T	est ▼ wn vest s graze / feed	within 100m of the					
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area How far are crops produced from the contaminated area?	1 km to 2 Northw 2 Unkno 2 Yes 3 Animal Crops	est ▼ wn vest s graze / feed	<u></u>		•			
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area?  How far are crops produced from the contaminated area?  If water at the site is contaminated, is there another	1 km to 2 Northw 2 Unkno Yes T	est ▼ wn vest s graze / feed	within 100m of the		•			
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area How far are crops produced from the contaminated area?	1 km to 2 Northw 2 Unkno 2 Yes 3 Animal Crops	o 5 km ▼  vest ▼  wn  s graze / feed are produced	within 100m of the		▼.			
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area How far are crops produced from the contaminated area? If water at the site is contaminated, is there another source of clean water available?  Is dermal contact with contaminated surface water, groundwater, sediments or soils anticipated?	1 km to ? Northw. ? Unkno Yes 1 Animal Crops No Yes 1	vest V wn sgraze / feed are produced	within 100m of the co	ntaminated area				
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area How far are crops produced from the contaminated area? If water at the site is contaminated, is there another source of clean water available?  Is dermal contact with contaminated surface water, groundwater, sediments or soils anticipated?  How far away are crops, animals or humans downwind of the site	1 km to Northweet Unkno Yes T Animal Crops No Yes T Crops	vest V wn sgraze / feed are produced	within 100m of the co within 10m of the co	ntaminated area				
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area How far are crops produced from the contaminated area? If water at the site is contaminated, is there another source of clean water available?  Is dermal contact with contaminated surface water, groundwater, sediments or soils anticipated?  How far away are crops, animals or humans downwind of the site Describe the access to the contaminated area	1 km to  Northwee  Unkno Yes  Animal Crops No Yes  Crops Easy s	vest V wn s graze / feed are produced are produced coess; few ba	within 100m of the co within 10m of the co within 10m of the co rrier to entry	ntaminated area				
Closeness of water from the site to be used as a source of potentially contaminated drinking or bathing water  In which direction What is it used for Is human ingestion of contaminated soils possible?  Describe the grazing pattern around the contaminated area How far are crops produced from the contaminated area? If water at the site is contaminated, is there another source of clean water available?  Is dermal contact with contaminated surface water, groundwater, sediments or soils anticipated?  How far away are crops, animals or humans downwind of the site	1 km to  Northwee  Unkno Yes  Animal Crops No Yes  Crops Easy s	vest V wn s graze / feed are produced are produced coess; few ba	within 100m of the co within 10m of the co	ntaminated area				

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# File Upload

Desk Sc	reen	General Ba	ckground	Type and Quantity	Release Risk	Receptor Risk	File Upload
Upload any	relevar	nt files, reports o	or images (20	MB maximum):			
File Type	@ do	cument 0 in	nage				
File For Upload	Выб	ерите файл	Файл не в	ыбран			
Description							
Save no	te: cha	nges will be s <i>a</i> v	ved if "Save" i	s clicked. To move throug	h sections without s	aving, use the section	index in the top

# 15 Files already uploaded:

#	File Type	Description	Time Uploaded	Action
1	doc	sample_log	2015-06-18 12:36:14	<u>view update delete</u>
2	doc	Laboratory results- D	2015-06-12 09:00:42	view update delete
3	doc	Laboratory results- C	2015-06-12 09:00:25	<u>view update delete</u>
4	doc	Laboratory results- B	2015-06-12 09:00:11	view update delete
5	doc	Laboratory results- A	2015-06-12 08:59:55	<u>view update delete</u>
6	doc	Sampling map	2014-12-03 08:54:25	view update delete
7	image	Other constructions in the area	2014-11-05 04:19:50	<u>view update delete</u>
8	image	Fields surrounding the area and community in the distance	2014-11-05 04:12:53	<u>view update delete</u>
9	image	View of fields in proximity	2014-11-05 04:11:54	view update delete
10	image	Irrigation water running through the site	2014-11-05 04:10:06	view update delete
11	image	Vegetation covering the area	2014-11-05 04:08:01	<u>view update delete</u>
12	image	Collapsed buildings	2014-11-05 04:06:36	view update delete
13	image	Distant view of the site and buildings	2014-11-05 04:05:15	view update delete
14	image	Road from the site, surrounded by crops	2014-11-05 04:02:55	view update delete
15	image	View of the area	2014-11-05 04:00:41	view update delete





# **Annex 3. Training Workshop Agenda**



# AGENDA Technical Review Workshop





#### **Arctic Contaminants Action Program (ACAP)**

"Rapid Environmental Assessment Demonstration Project"

Date: August 23-24, 2020 Location: Krasnoyarsk, 94 Uritskogo St



#### August 23, 2020

Time	Topic	Reference material
10:00-10:15	Introductions  Self Introduction  Goals and structure of the workshop: Understand the project, role of government, Rapid Environmental Assessment methodology, conduct example site assessment, learn to use database	Meeting Agenda Klimova M. Sharov P.
10:15-10:45	Project overview  Background: introduction to the project goals and structure, roles of participants  Project Scope and Activities: geographic scope; types of pesticides; other project components  Follow-up/feedback: What happens after Rapid Environmental Assessments?	Presentation Sharov P.
10:45-11:00	Using the Data: Prioritizing sites for remedial planning  Tea Break	
11:00-11:30	Previous/Ongoing Inventory & Clean-Up Projects  Review of ongoing efforts and projects regarding obsolete Pesticides: local, national and international programs to identify, assess, repackage and clean-up obsolete pesticides	Presentation  Klimova M. Kuligin V. Shestopalova N. Kosareva E.





11:30-12:00	Chemicals & Environmental Health	Presentation
	Review of relevant environmental health issues:  Hazards and risks Types of pesticides	Sharov P.
	<ul> <li>Pathways into the body</li> <li>Dose response</li> <li>Other environmental health issues related to pesticides</li> </ul>	
12:00-13:00	Rapid Environmental Assessment (REA) Methodology  TSIP methodology and database	Presentation & Investigator Handbook
	Conducting Assessments:	Sharov P.
13:00-14:30	Lunch Break	
14:30-16:00	Choosing a sampling method based on the site characteristics  Where to sample Sampling equipment How to take samples How many samples to take How to store samples Where to send samples for analysis	Presentation & Investigator Handbook Sharov P.
16:00-16:30	Using the Online Database  Demonstration of how to enter site information into the online REA database	
16:30-16:45	Tea Break	
16:45-17:15	<u>Safety</u>	Presentation & Investigator Handbook
	Identifying hazards and risks  Proper use of personal protective equipment (PPE)	Sharov P.
17.15 17.20	Proper handling and disposal of PPE	
17:15-17:30	Questions & Comments  Confirm details of day 2 site visit	
L	1	1

# August 24, 2020

	Gather & Prepare for Demonstration Site Assessment	
09:30-14:30	Site Visit & Demonstration Assessment	Field demonstration





14:30-16:00	<u>Database Exercise</u>	Sharov P.
	Practicing entering data from demonstration assessment into REA database	

## ПРОГРАММА

"Демонстрация оценки устаревших пестицидов ". Дата: 23-24 августа 2020 г. г. Красноярск, гостиница Красноярск

23 августа 2020

Время	Тема	Справочный материал
10:00-10:15	Введение	Повестка дня
	Представление участников	Климова М.Ю.
	<b>Цели и структура семинара</b> : Ознакомление с проектом, с ролью государственных структур, методологией быстрой экологической оценки. Провести экспресс оценку участка, обучить использованию базы данных	Шаров Петр
10:15-10:45	Справочная информация: знакомство с целями и структурой проекта, ролью участников Область действия и деятельность проекта:	Презентации
	географический охват; виды пестицидов; другие компоненты	Презентации
	проекта	Шаров Петр
	Последующая /обратная связь: Что происходит после быстрой	
	экологической оценки?	
	<b>Использование данных:</b> Выбор приоритетных участков для планирования деятельности по их восстановлению	
10:45-11:00	Перерыв на чай	
11:00-11:30	Предыдущие/Текущие инвентаризации -	Презентации
11.00-11.50	<u>Проекты очистки</u>	участников
	Обзор текущих усилий и проектов, касающихся устаревших	семинара
	пестицидов: местные, национальные и международные	Климова М.Ю.
	программы по выявлению, оценке, переупаковке устаревших	Кулигин В.Д. Шестопалова
	пестицидов и очистке территорий	Н.С.
		Косарева Е.Н.
11:30-12:00	Химические вещества и охрана окружающей	•
	среды	
	Обзор соответствующих вопросов охраны окружающей	Презентации
	среды:	
	• Опасности и риски	
	• Виды пестицидов	
	• Пути поступления в организмы	
	• Доза ответ	





	<ul> <li>Другие вопросы охраны окружающей среды, связанные с пестицидами</li> </ul>	
12:00-13:00	<ul> <li>Методика быстрой экологической оценки (REA)</li> <li>Проведение оценок:         <ul> <li>Перед оценкой (исследования и подготовка)</li> <li>Необходимое оборудование</li> <li>Во время оценки (сбор информации)</li> <li>После оценки (ввод информации в базу данных)</li> </ul> </li> </ul>	Шаров Петр
13:00-14:30	Перерыв на обед	
14:30-16:00	Пробы         Выбор метода отбора проб В Зависимости от характеристики участка:         • Где брать пробы         • Оборудование для отбора проб         • Как взять пробы         • Сколько образцов взять         • Как хранить образцы         • Куда отправить образцы для проведения анализов	Презентации и Руководство для исследователя Шаров Петр
16:00-16:30	Перерыв на чай	
16:45-17:15	Безопасность Определение опасности и рисков Правильное использование средств индивидуальной защиты (СИЗ) Надлежащая обработка и утилизация СИЗ	Презентации И Руководство для исследователя Шаров Петр
17:15-17:30	Вопросы и комментарии Разъяснения деталей посещения участка (практическое занятие) во 2 день.	

24 августа 2020

	Сбор для поездки на практическое занятие	
09:30-14:30	Посещение участка и демонстрационная оценка	Шаров П.
	Перерыв на обед	
16:00- 17:30	Обучение заполнения базы данных Практика ввода информации, полученной из демонстрационной оценки участка, в базу данных REA	Шаров П.





# **Annex 4. List of Workshop Participants**

# Technical Review Workshop "Rapid Environmental Assessment Demonstration Project"

1	Alexander Alexandrovich Vasilenko	Assistant professor Federal State Budgetary Educational Institution of Higher Education "Krasnoyarsk State Agrarian University" 660049, Russia, 90, Mira Av., Krasnoyarsk Tel:+7 (950) 407-44-01 WasilenkoAA@yandex.ru
2	Albina Vladimirovna Vasilenko	Scientific Secretary Federal Research Center "Krasnoyarsk Science Center of the Siberian Branch of the Russian Academy of Sciences" 660041, Russia, 66, Svobodniy Av., Krasnoyarsk Tel.:+7 (950) 407-44-01 WasilenkoAA@yandex.ru
3	Marina Yurievna Klimova	Regional Coordinator, Blacksmith Institute Russia, Moscow Tel.: +7 (916) 210-56-02, +7 (499) 610-75-87 klimova39@mail.ru
4	Elena Nikolaevna Kosareva	Acting Director Federal State Budgetary Institution "Station of the Agrochemical Service" Arkhangelskaya " 163062, Russia, Arkhangelsk, Nikitova St., 9 Tel.: +7 (8182) 68-66-80 agrohim 29@mail.ru
5	Natalia Stanislavovna Kozulina	Deputy Director for Research Federal Research Center "Krasnoyarsk Science Center of the Siberian Branch of the Russian Academy of Sciences" Russia, Krasnoyarsk Tel.: +7 (913)190-55-05; 244-95-14
6	Vasily Dmitrievich Kuligin	Director LLC "Siberian Scientific Research Institute of Hydraulic Engineering and Melioration"  660018, Krasnoyarsk,Krasnomoskovskaya st., 32-143 Tel.: +7(913) 837-43-31





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7	Mikhail Arkadievich Mikhailets	Graduate student Federal Research Center "Krasnoyarsk Science Center of the Siberian Branch of the Russian Academy of Sciences" 660049, Russia, 90, Mira Av., Krasnoyarsk Department of Soil Science and Agrochemistry Tel.:+7(933) 333-09-16 mikhailets_ma@mail.ru
8	Olga Sergeevna Ofann	Head of the laboratory LLC "Center for Environmental Research and Audit" Krasnoyarsk Russia Tel.:+8 (953) 581-68-79 cot.; 8 (3112) 18-05-50 ceria@list.ru
9	Irina Yurievna Sochneva	Director LLC "Center for Environmental Research and Audit" Russia, Krasnoyarsk, Svobodniy Ave., 72A, office 115 Tel.: +8 (902) 924-24-11
10	Petr Olegovich Sharov	Regional Director Eastern Europe and Central Asia Program Blacksmith Institute for Pure Earth 475 Riverside Drive Suite 860, New York, NY 10115 Phone: +7-924-2325-784, +1(212) 870-3484 skype: petr.sharov www.pureearth.org petr@pureearth.org
11	Nina Semyonovna Shestopalova	Branch manager Branch of the federal state budgetary institution "Russian Agricultural Center in the Komi Republic" 167003, Syktyvkar, Rucheynaya st., 28 Komi Republic Russia Tel.: +7(8212) 31-93-06, 31-95-02, 8(912) 963- 93-09 rsc11@mail.ru





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12	Konstantin Sergeevich Sochnev	Procurement Specialist LLC "Center for Environmental Research and Audit" Russia, Krasnoyarsk, Svobodniy Ave., 72A, office 115 Tel.: 8(913) 339-84-61
13	Malinnikov* Aleksei Valentinovich	Head of the Branch "Russian Agricultural Center of Krasnoyarskiy kray" 660049, г. Красноярск, ул. Сурикова д. 54в Россия Тел.: +7 (391) 227-74-96 krstazr@mail.ru
14	Nefedov* Andrei Alekseevich	Senior Researcher Novosibirsk Institute of Organic Chemistry N.N. Vorozhtsov of the Siberian Branch of Russian Academy of Sciences 630090, г. Новосибирск, проспект Академик Лаврентьева, д. 9 Россия Тел.: +7 (383)330-78-64 nefyodov@nioch.nsc.ru
15	Pokhodin* Aleksandr Nikolaevich	First Vice Minister of Agriculture and Trade of Krasnoyarskiy kray  660009, Красноярск, ул. Ленина, 125 Россия Тел.: +7 (391) 249-31-33 krasagro@krasagro.ru
16	Romanov** Vasiliy Nikolaevich	Head of Agricultural Technologies of the Krasnoyarsk Agriculture Research Institute SB RAS 660041, г. Красноярск, пр. Свободный, 66 Россия +7 (913) 0478951 romanov1948@yandex.ru
17	Temnikova* Alena Igorevna	Program Associate Eastern Europe and Central Asia Program Blacksmith Institute for Pure Earth alena@pureearth.org

## Notes:

- \* Participated online using zoom
- \*\* Participated one day





# **Annex 5. Site Assessment Reports**

In September-November 2020 the project teams in Krasnoyarsk, Arkhangelsk and Komi regions did 9 rapid environmental assessments of sites potentially contaminated with pesticides.

The rapid environmental assessments followed REA and TSIP protocols. The investigators completed physical descriptions for each site, identified the sources of contamination, estimated the migration of the pollutants and exposure pathways, assessed population at risk. The investigators took top soil samples at each site, recorded sampling coordinates, took photos and prepared maps. The descriptions of sites and documents were uploaded to the online database.

The investigators filled the information in Russian. Pure Earth staff reviewed the data to ensure that all required information is present and up to standards. Site descriptions were translated into English.

The map below shows the locations of sites assessed in 2020.







#### Site Assessment Report 1. RU-8441

#### Abandoned warehouse, Pezmeg Village, Kortkeros District, Komi Republic

Pezmeg Village is located in Kortkeros District of Komi Republic on the high right bank of the Vychegda River near the Pezmegty Lake.

The source of contamination is a former pesticide warehouse. The warehouse is located in Severnaya Niva LLC livestock farm. The agrochemicals warehouse was built in late 1960s. Pezmeg State Farm was the owner of the warehouse. In 1991-2007 there were 4 removals of obsolete pesticides from the site. The amount of the removed pesticides was 0.2 tons. The warehouse was decommissioned in 2007. The area of the former warehouse is 50 square meters.

The administrative building of Severnaya Niva LLC livestock farm is 300 meters south-west from the site. There are agricultural fields 20 meters to the south and east. Vegetables and perennial grasses for haymaking grow on the site. The nearest settlement is 2 km north.

The key suspected pollutants are organochlorine pesticides. Surface runoff could carry pesticides off-site. The dust contaminated with pesticides could be carried by wind. The site is easily accessible for people and animals. People could be exposed though inhalation of vapors, inhalation and ingestion of dust, and skin contact.

The conducted assessment did not confirm contamination on the site with pesticides.

Пезмег (Пезмог) - село в Корткеросском районе, расположенное на высоком правом берегу р. Вычегды у большого озера Пезмег-ты. Исследования проводились на территории ООО" Северная Нива" (животноводческое хозяйство).

Склад химикатов был построен в конце 60-х годов и принадлежал совхозу "Пезмег". С 1991 - 2007гг. проведены 4 утилизации устаревших пестицидов в количестве 0,2 тонны (выведен из эксплуатации в 2007г.).

- 1. Местоположение и географическое описание территории территория с бывшим складом находится близ села Пезмег Корткеросского района Республики Коми. В 300 метрах к юго-западу находится административное здание животноводческого хозяйства ООО «Северная Нива». В 20 метрах на юг и восток от земельного участка, на котором располагался бывший склад с пестицидами, находятся поля сельскохозяйственного назначения, где выращиваются овощные культуры и многолетние травы на сенокос. Расстояние до центра населенного пункта больше 2км на север.
- 2. Источник загрязнения склад для хранения пестицидов, располагается на земельном участке площадью 50 м. кв. Склад принадлежал совхозу "Пезмег".

Основные токсичные вещества - хлорорганические пестициды.





- 3. Способ миграции загрязняющих веществ поверхностный смыв является средством переноса пестицидов по загрязненному участку, создавая риск загрязнения почвы и дальнейшего распространения с водой. Риск прямого воздействия на людей из-за содержания пестицидов в верхних слоях почвы или из-за распространения с участка посредством людей или ветра.
- 4. Пути экспозиции людей попадание загрязнителя в организм человека при вдыхании пыли, употреблении загрязненной воды, пищи, выращенной на участке. Участок легко доступен для людей и домашних/диких животных.
- 5. Население, подвергающееся воздействию загрязнителя. Люди могут опосредованно контактировать с загрязнением, если они употребляют в пищу растения, а также животноводческую продукцию выращенных на загрязненной токсичными веществами почве
- 6. По результатам исследования в 2020 году подтвердилось отсутствие риска от воздействия загрязнителя.

Longtitude	Latitude	Date	Town/Area Name	Description of the sampling spot	Sampler Full Name	DDT, ppm	Lindane, ppm
61.83219166666666	51.749948333333336	17.09.2020	Severnaya Niva LLC, Pezmeg Village	irrigation channel	Sergey Vladimirovich Peshkin	0,01	0,01
61.832169999999998	51.749899999999997	17.09.2020	Severnaya Niva LLC, Pezmeg Village	perennial grasses	Sergey Vladimirovich Peshkin	0,01	0,01
61.832484999999998	51.747948333333333	17.09.2020	Severnaya Niva LLC, Pezmeg Village	perennial grasses	Sergey Vladimirovich Peshkin	0,01	0,01
61.831575000000008	51.74699499999998	17.09.2020	Severnaya Niva LLC, Pezmeg Village	perennial grasses	Sergey Vladimirovich Peshkin	0,01	0,01
61.831391666666669	51.745580000000004	17.09.2020	Severnaya Niva LLC, Pezmeg Village	potato field	Sergey Vladimirovich Peshkin	0,01	0,01
61.830660000000002	51.744900000000008	17.09.2020	Severnaya Niva LLC, Pezmeg Village	next to the road	Sergey Vladimirovich Peshkin	0,01	0,01
61.8300283333333331	51.745093333333333	17.09.2020	Severnaya Niva LLC, Pezmeg Village	next to the road	Sergey Vladimirovich Peshkin	0,01	0,01
61.830226666666675	51.741918333333324	17.09.2020	Severnaya Niva LLC, Pezmeg Village	30 meters from the warehouse building	Sergey Vladimirovich Peshkin	0,01	0,01
61.830384999999993	51.741716666666662	17.09.2020	Severnaya Niva LLC, Pezmeg Village	40 meters from the warehouse building	Sergey Vladimirovich Peshkin	0,0153	0,01
61.83044833333333	51.741405	17.09.2020	Severnaya Niva LLC, Pezmeg Village	Warehouse	Sergey Vladimirovich Peshkin	0,01	0,01







## RU-8441 Abandoned warehouse, Pezmeg Village, Kortkeros District



Figure 1. Map of the site RU-8441







Figure 2. General view of the warehouse



Figure 3. Sampling near the road of the warehouse



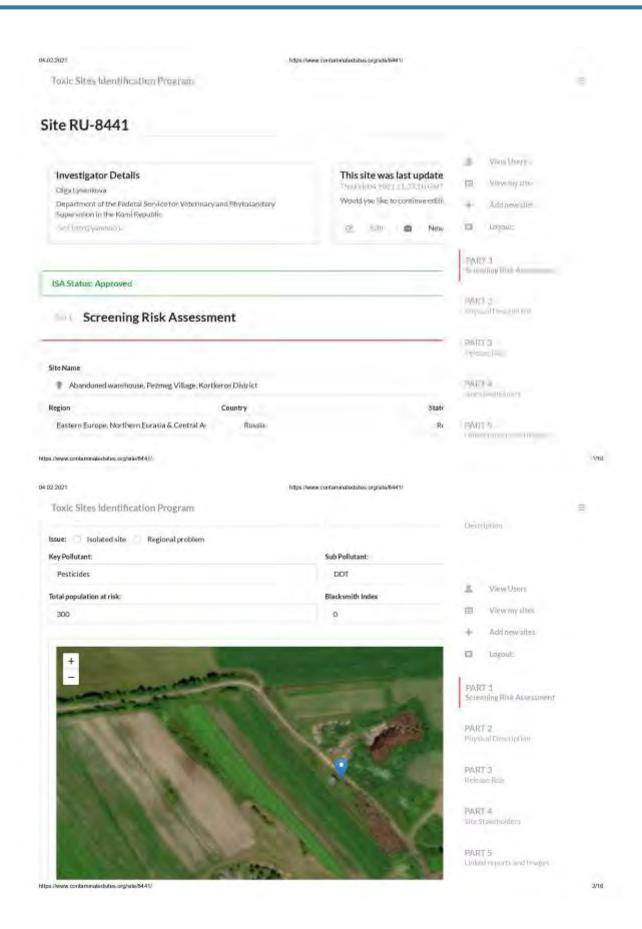




Figure 4. The building of the former warehouse

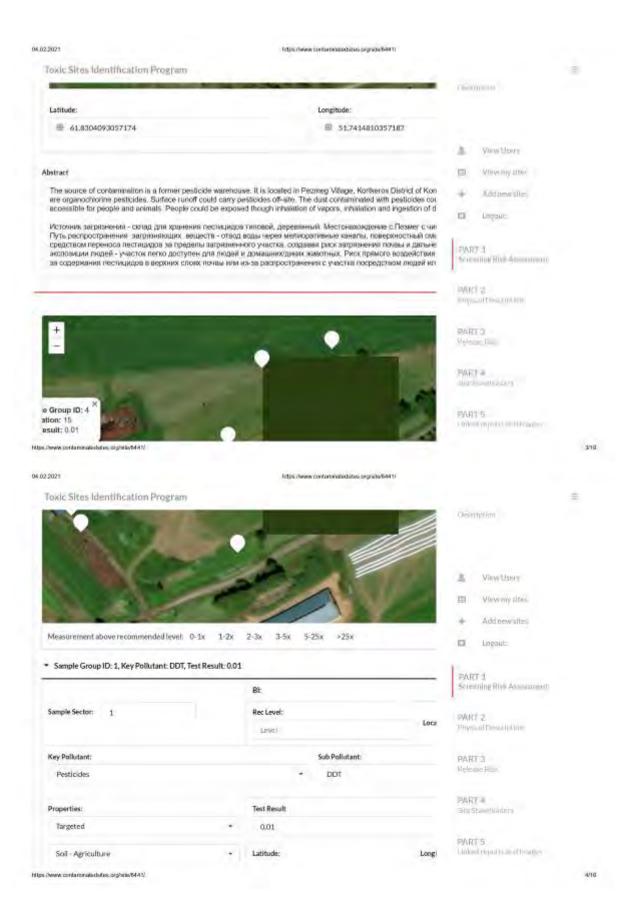
















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Toxic Stres Identifica	Hon Program				=
was built in into 1960s. It amount of the removed p The administrative builth and east. Vegetables an The key suspected pollu	ezmeg State Farm was the obsticides was 0.2 tons. The ing of Severnaya Niva LLC in a perennial grasses for haymants are organischlorine pes	warehouse was decommissive vestock farm is 300 meters so naking grow on the site. The r sicides. Surface runoff could	991-2007 there were 4 removals of oned in 2007. The area of the forme outh-west from the site. There are a searest settlement is 2 km north; corry pessicodes off-site. The dust or the exposed though inhalation of vi	f 6	
SWI CUITAS.I.				di memori	
Size of Contaminated Area	5		Estimated depth of contamination:	TEL Mary and the	
♦ 5,000 - 10,000 m² (	1 hectare)		15		
				+ A -will	
Was a test pit dug to deter	mine depth of contamination?			100-00	
→ No				75	
is there a virtue small asse	iciated with the site attributed	(In contamination)		\$187   -10-MOV/03	
● No.				1	
10.00				2001	
				111	
				19800 3	
Soil Group		Soil Texture			
PODZOLS_HISTOSOLS		Coarse			
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		% 43	% 4		
18.					
16				WELL	
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Land Use  Zoxic Sites Identifics  Land Use:  Agriculture #	tion Program  people in the following categ	Idio newros pories: Within 50 meters	within 100 meters	Voes Veer  Voes Veer  Address tile	₩ €
Land Use  Toxic Sites identifics  Land Use:  Agriculture	tion Program  people in the following categ	Idio newros pories: Within 50 meters	within 100 meters	View Meers  View Meers  Addingwille  Addingwille  PART 1	
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Land Use  Cover Extanguation of Section 25021  Toxic Sites identifics  Land Use:  Agriculture =  Live  Work	tion Program  people in the following categ  On Site	pories: Within 50 meters	Within 100 meters	View Marr  View Marr  Addrewable  Lorque  PART 1  THE HIGH POLICE  WANT 2  TO ART 1-100-101-100	
Land Use:  Agriculture   Live  Work	tion Program  people in the following category  On Site	pories: Within 50 meters	Within 100 meters	Van Varr  Van Varr  Van Varr  Addrew tile  Addrew tile  PART 1  tre-short in 4  an an	
Land Use:  Agriculture   Live  Work	tion Program  people in the following category  On Site	pories: Within 50 meters	Within 100 meters	Addinevalle  PART 1  Interdior Roy All consons  PART 2  TO SECOND	
Land Use:  Agriculture   Live  Work  Visit	clon Program  people in the following cates  On Site	pories:  Within 50 meters  D  2	Within 100 meters  D  Total across all cat	Votes Vener  Votes only dres  Addiness alle  Loriouse  PART 1  Interesting Rivida  PART 3  Venex F.  PART 3  Venex F.  PART 3  Venex F.	
Land Use:  Agriculture   Live  Work  Visit	clam Program  people in the following categ  On Site	pories:  Within 50 meters  D  2	Within 100 meters	Votes Marry  Votes on the Address tile  Larrows  PART 1  THE MINNER AT THE TART 3  Votes E.  PART 2  STREET BREAKING	





02.5021	https://www.contommonebilos.cografa/6441)			
Toxic Sites Identification Program				=
■ Large Rover	No	1	11	
What is the groundwater used for?				
Not Known				
If water at the site is contaminated, is there another source of clean water a	vailable?		Your Marrie	
Na				
			Military street	
Describe the access to the contaminated area:	Describe the ground cover over the cor	+	Addrewalle	
₹ Easy access; few barrier to entry	There is complete grass cover?		Talanc	
Taken Comments		Low		
Source Industry:		PARE	F.1 WHOW WOOD A	
Agicature		N-		
Active / Legacy	Formal / Informal	HAR	intro-combine	
Lisgacy	☐ Informal			
			T3	
		Pelos	ac fee	
		PAID	G -	
Documented Health Effects: Ill No			and the second	
Describe credible health impact of pollutant. Appendiany existing studies (s	can and pdf) to Part 6. Indicate anecdotal evidence c			
		EV42	Ph.	
Denovar portila ministratura cognitaria (NAA)				a
Total Control of Contr				
2,5021	https://www.conformationbilos.org/sets/6441)			
Toxic Sites Identification Program				=
Достоверного воздайствия загрезнителя на эдоровье нет		11	11	
Additional Notes:			Your blaze ii	
		13	Military street	
		+	Addrewalle	
		13	Limitalia	
		PAR	7.1 SHOW ROY I A	
		T wies	HINTER PROPERTY.	
Release Risk		PART		
		maker	Laft to Lambert	
		PAR	13	
there permanent surface water on the site?	What is it used for?			
No	f feled one			
sthere evidence of a high water table or ground water?	Depth of the water table	7941	e-moire	
No	1 Select a deselv			
		EVA:		
sthe site in a flood plain?		1.000	0.000	
Deserve continues adjusted as continues of the second seco				1100





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Toxic Sites Identification Program			=
Distance to the closest river or water body downstream of the contaminated sit	te	16-00	
→ 1 km in 5 km			
Distance to the closest well	In which direction?	Non Mary	
→ No well in vicinity	Select a direction	□ Maveny the	
		Addressile	
Position of the contaminants relative to the slope	is this a storage facility for chemical  No	Lorrance Lorrance	
Above ground level and slope is flat	<b>C</b> 160	Lauren	
Site Stakeholders		AVISA 1	
74476.19774		WARE TO THE TANK OF THE TANK O	
Number of stakeholders interviewed Number of	males N	um PART 3	
Alb 1 ¶ Num	nber of nales	Francisco (Inc.)	
Stakeholder Type		PARTY &	
Other Agency 2			
Name		FIART 1	
s. Perview, contide translative challent, congline to 64 4 I /			35
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Toxic Sites Identification Program			=
Address		1	
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168041, Kami Republic, Sovkhoznaya Street, 2, Pezmeg Village, Ko	rikeros District.		
		Was Mare	
		Novemy street	
Phone Number	Email	+ Addrewalle	
7821369 42 85	n/a	E Logous	
Meeting Dates, Notes, & Key Findings		1	
17 09:2020. Galina Leonidovnia Tarasevich fold about the history of the warehous Pacovas o perfore curaça.	0	PART 3 To reminer flow As	
		MKI 2	
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Note any physical, political or social barriers to the intervention:	P	
	PART 1	
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Who is Local Champion? Provide contact details:	PART 3	
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#### Site Assessment Report 2. RU-8476

#### Former pesticides warehouse, Mosha village, Nyandomsky District, Arkhangelsk Oblast

The former warehouse of obsolete pesticides is located in Mosha Village, Nyandomsky District of Arkhangelsk Region within the Mosha River Watershed.

The source of contamination is a typical brick warehouse building. The previous inventory of obsolete pesticides in Moshinsky state farm was conducted in 2003. During that inventory 1805 kg of obsolete organochlorine pesticides were found in the warehouse.

Pesticides were stored in broken containers inside the warehouse until June, 2004. In 2004 the slate roof of the building was removed, the brick wall was dismantled. Currently the warehouse building is in very poor condition and is partially destroyed.

The key contaminants are organochlorine pesticides.

The distance to the nearest farm is 1030 meters to the north. Livestock graze close to the warehouse. Farm animals have free access to the contaminated area. People may eat contaminated animal products or crops.

The largest lake Moshinskoe is located 730 meters to the northeast from the site. People use it as a recreation area. Runoff from the site may enter the lake.

The nearest residential buildings are within 1285 meters to the north from the site. The population uses water from a centralized water supply system. Children can enter the site. The residential area is downwind of the warehouse.

The dust contaminated with pesticides could be carried by wind. People could be exposed to inhalation of vapors, inhalation and ingestion of dust, and skin contact.

The conducted assessment did not confirm contamination on the site with pesticides.

- 1. Местонахождение и географическое описание территории территория с бывшим складом находится в Няндомском муниципальном районе Архангельской области, на юго-востоке бассейн реки Моша. В в 730 метрах расположено крупнейшее озеро Мошинское. Расстояние до населенного пункта 1030 метров (до фермы), 1285 метров до жилых домов.
- 2. Источник загрязнения склад для хранения пестицидов типовой, кирпичный, из двух отделений, требовал ремонта.

Основные токсичные вещества - хлорорганические пестициды.





- 3. Способ миграции загрязняющих веществ поверхностный смыв является средством переноса пестицидов по загрязненному участку, создавая риск загрязнения почвы и дальнейшего распространения с водой. Риск прямого воздействия на людей из-за содержания пестицидов в верхних слоях почвы или из-за распространения с участка посредством людей или ветра.
- 4. Пути экспозиции людей попадание загрязнителя в организм человека при вдыхании пыли, употреблении загрязненной воды, пищи, выращенной на участке. Участок легко доступен для людей и домашних/диких животных.
- 5. Население, подвергающееся воздействию загрязнителя сток с участка мог попадать с грунтовыми водами в озеро, на расстоянии до фермы пасли скот, домашних животных, в 1285 метрах жилые дома, гуляют дети. Получают питьевую воду централизованно. У местных жителей дома в основном деревянные. Детей в основном по двое в семьях. Жилые зоны частично находятся с подветренной стороны от источника воздушного загрязнения. В настоящее время люди не проходят возле источника загрязнения по дороге на работу/школу. По территории поселения проходят автодороги общего пользования регионального значения.
- 6.По результатам исследования в 2020 году подтвердилось отсутствие риска от воздействия загрязнителя.

Longtitudo	Latitude	Date	Town/Area Name	Description of the	Sampler Full Name	Organochlorine
Longtitude	Lalllude	Date	Town/Area Name	sampling spot Land area	ivame	pesticides, ppm
				overgrown with		
40,84927	61,77622	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
,	,		Ŭ	Land area		
				overgrown with		
40,84921	61,77623	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
				Land area		
40.04047	04 77005	00.40.0000	Maraka VCU	overgrown with	A 0	0.04
40,84917	61,77625	03.10.2020	Mosha Village	weeds Land area	A. Sverlov	<0.01
				overgrown with		
40,84914	61,77931	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
10,0 10 1 1	0.,	00.10.2020	mage	Land area	7 0.1001	10101
				overgrown with		
40,84912	61,77635	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
				Land area		
				overgrown with		
40,84912	61,77637	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
				Land area		
40,84933	61,77622	03.10.2020	Mosha Village	overgrown with weeds	A. Sverlov	<0.01
40,04933	01,77022	03.10.2020	Wosiia Village	Land area	A. Svellov	<u> </u>
				overgrown with		
40,84942	61,77623	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
			<u> </u>	Land area		
				overgrown with		
40,84949	61,77624	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
				Land area		
40.04057	04 77004	00.40.0000	Marka Villaga	overgrown with	A 0	0.04
40,84957	61,77624	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
				Land area overgrown with		
40,84967	61,77625	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01
70,07301	01,11023	00.10.2020	Woodia village	110003	7. OVCHOV	<b>~0.01</b>





				Land area		
				overgrown with		
40,84975	61,77625	03.10.2020	Mosha Village	weeds	A. Sverlov	<0.01

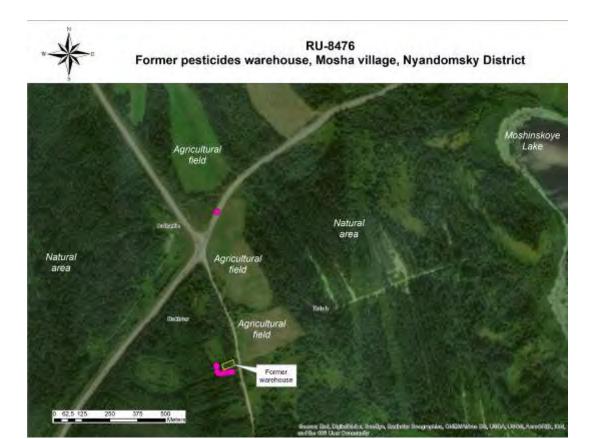


Figure 5. Map of the site RU-8476







Figure 6. The remains of the warehouse building



Figure 7. The road near the warehouse



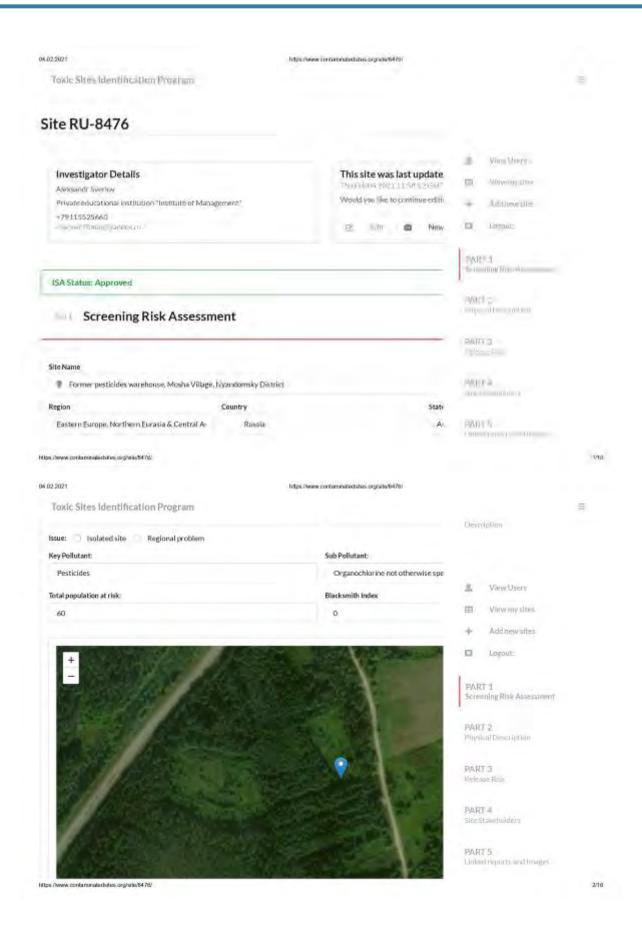




Figure 8. Agricultural field near the warehouse

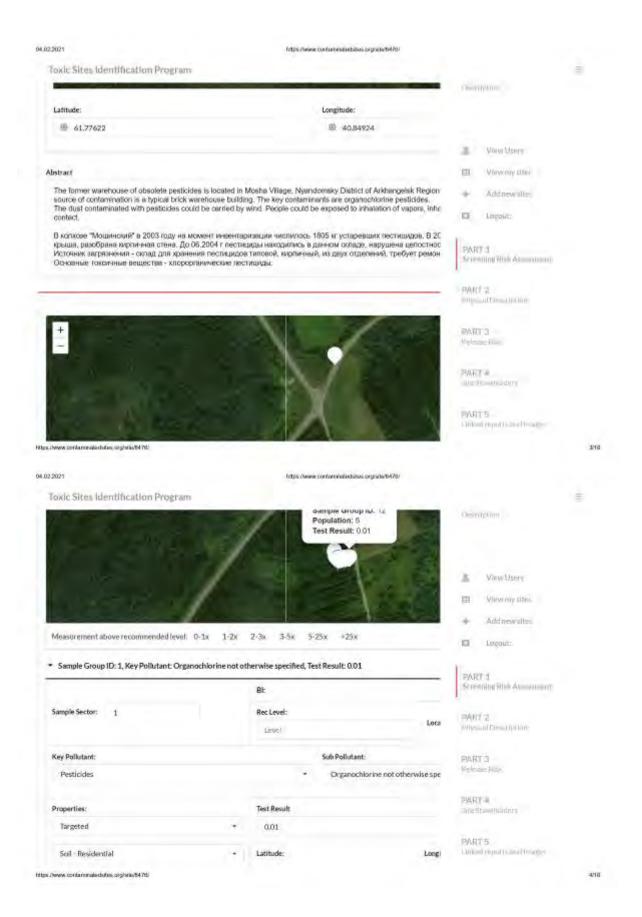
















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➤ Sample Group ID: 11 Key Pollutant: Organochlorine not	otherwise specified, Test Result: 0.01	
Sample Group ID: 12, Key Pollutant: Organochlorine not		
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Estimated additional population possibly at risk:		El Movement
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dismantled. Currently the warehouse building is in very por. The key contaminants are organical training pesticides.		
	th. Livestock graze close to the warehouse. Farm animals in	-
	northeast from the site. People use II as a recreation area. R	-0.7-
	***************************************	
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Size of Contaminated Area:	Estimated depth of contaminations	017





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Toxic Sites Identification Program				=
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is there a strong smell associated with the site a	ttributed to contamination?			
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Site accessibility to animals that are later consu	med by humans:	How far are crops produced from	m the c PART 1	
11 Accessible to occasional food animals		Within 100m of the cont	Scientifor Rivin A.	100-100
			PART 2	
Type of Water Body:		is there possible groundwater or	my ofto and	10
▲ Large Lake (more than 10 hectares)		Yes		
What is the groundwater used for?			PART 3	
♦ Not Known				
If water at the site is contaminated, is there and	ther source of class water will	rishe?	PART =	
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1.00				
			PART 5	LVIII - I





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Documented Health Effects: Illi No		P	
Describe credible health impact of pollutant. Append any existing st	udies (scan and pdf) to Part 6. Indicate anecdotal evidence c	PARA I	
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is there permanent surface water on the site?	What is it used for?	PARZ 1	
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Is there evidence of a high water table or ground water?	Depth of the water table	Industry .	
Na.	\$ School of Control	MRS 2	
is the site in a flood plain?			
▲ No		PART 3	
Distance to the closest river or water body downstream of the contami	inated site		
→ 300 m to 1 km		PARY	
		Str U. Modern	
		EART V	
Distance to the closest well	In which direction?	100 0 0 0 1	
os Povers contaminação de fina confrais 54 (d.)			192

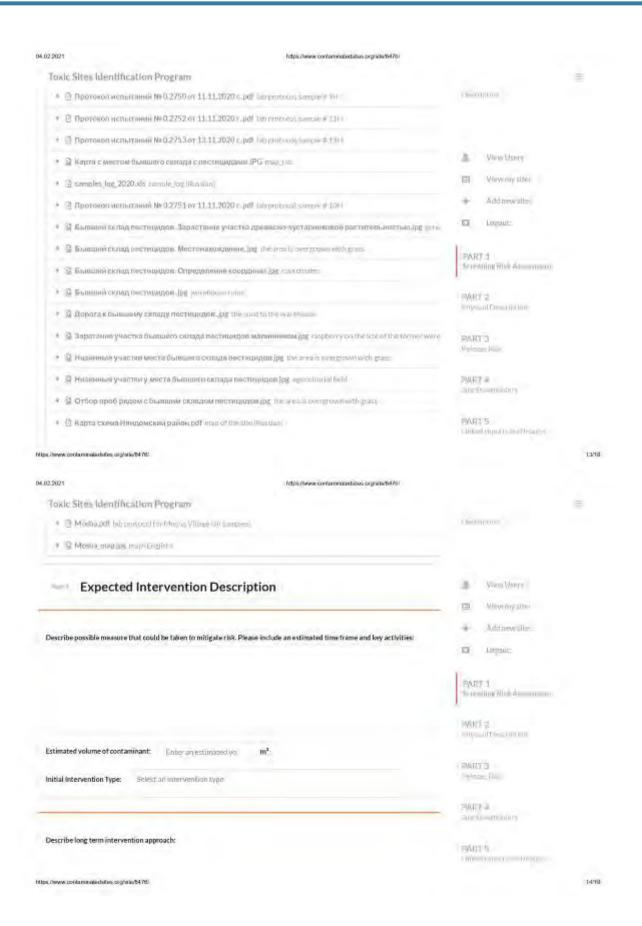
















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Note any physical, political or social barriers to the intervention:		Man Mary	
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Who is Local Champion? Provide contact details:		PART 1 To resulting Stock Assessments	
		MAKE 2	
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Activities carried out to date:		PART A Significant Control	
		PARTS	
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#### Site Assessment Report 3. RU-8502

### Former warehouse of toxic chemicals, Syktyvkar town, Komi Republic

The former warehouse of obsolete pesticides is located in Syktyvkar city. The population of Syktyvkar city is 244,403 people. The warehouse was built in 1960s. The building of the warehouse was made of bricks.

The area of the warehouse is 50 square meters. The state farm Severnoye was the owner of the warehouse.

In 1993 0.4 tons of obsolete pesticides were removed from the site. The warehouse was not in use since 2007. It is partially destroyed.

There are agricultural fields at a distance of 20-40 meters around the warehouse. People grow vegetables and perennial grasses for hay on these fields. There are residential buildings within 800 meters north of the site.

The key pollutants are organochlorine pesticides.

Surface runoff could carry pesticides off-site. The dust contaminated with pesticides could be carried by wind.

Humans and domestic and wild animals can easily access to the area of the warehouse. People could be exposed though inhalation of vapors, inhalation and ingestion of dust, and skin contact.

The conducted assessment did not confirm contamination on the site with pesticides.

Исследования проводились на территории г. Сыктывкар. Склад химикатов был построен в 60-х годах. Проект типовой, кирпичный. С 1995 года проведены утилизации устаревших пестицидов в количестве 0,4 тонны. С 2007 года склад не функционирует (разобран).

- 1. Местоположение и географическое описание территории. Территория с бывшим складом находится близ города Сыктывкар Республики Коми. Со всех сторон на расстоянии от 20 до 40 метров окружен полями сельскохозяйственного назначения, где выращиваются овощные культуры и многолетние травы на сенокос. Расстояние до близ стоящих домов 0,8км к северу.
- 2. Источник загрязнения склад для хранения пестицидов. Склад располагается на земельном участке площадью 50 м.кв. Склад принадлежал ОПХ "Северное".

Основные токсичные вещества - хлорорганические пестициды.





- 3. Способ миграции загрязняющих веществ. Поверхностный смыв является средством переноса пестицидов по загрязненному участку, создавая риск загрязнения почвы и дальнейшего распространения с водой. Риск прямого воздействия на людей из-за содержания пестицидов в верхних слоях почвы или из-за распространения с участка посредством людей или ветра.
- 4. Пути экспозиции людей попадание загрязнителя в организм человека при вдыхании пыли, употреблении загрязненной воды, пищи, выращенной на участке. Участок легко доступен для людей и домашних/диких животных.
- 5. Население, подвергающееся воздействию загрязнителя. Люди могут опосредованно контактировать с загрязнением, если они употребляют в пищу растения, а также животноводческую продукцию выращенных на загрязненной токсичными веществами почве.
- 6. По результатам исследования в 2020 году подтвердилось отсутствие риска от воздействия загрязнителя.

				Description of			
			Town/Area	the sampling	Sampler Full	DDT.	Lindane.
Longtitude	Latitude	Date	Name	spot	Name	ppm	ppm
_		21.09.2020	Syktyvkar		Sergey	0,01	0,01
				next to the	Vladimirovich		
61.671680000000002	50.753308333333344			irrigation channel	Peshkin		
		21.09.2020	Syktyvkar	field with	Sergey		
				perennial	Vladimirovich		
61.671875	50.752821666666662			grasses	Peshkin	0,01	0,01
		21.09.2020	Syktyvkar	field with	Sergey		
				perennial	Vladimirovich		
61.672263333333333	50.753429999999994	24.00.000	0.1.	grasses	Peshkin	0,01	0,01
		21.09.2020	Syktyvkar	field with	Sergey		
04 07450000000000	50.7500000000000			perennial	Vladimirovich	0.04	0.04
61.671563333333333	50.75392666666665	04.00.0000	0.14	grasses	Peshkin	0,01	0,01
		21.09.2020	Syktyvkar	next to the	Sergey Vladimirovich		
61.671331666666674	50.755028333333335			irrigation channel	Peshkin	0.01	0.01
01.071331000000074	30.73302633333333	21.09.2020	Syktyvkar	near the	Sergey	0,01	0,01
		21.09.2020	Syktyvkai	warehouse	Vladimirovich		
61.671681666666672	50.75216666666668			building	Peshkin	0.01	0.01
01:07 100 100 000 000 72	00.70210000000000	21.09.2020	Syktyvkar	near the	Sergey	0,01	0,01
		21.00.2020	Cyntyvitai	warehouse	Vladimirovich		
61.671473333333333	50.752550000000006			building	Peshkin	0.01	0.01
		21.09.2020	Syktyvkar		Sergey	Í	,
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61.670974999999999	50.752250000000004			agriculturial field	Peshkin	0,01	0,01
		21.09.2020	Syktyvkar		Sergey		
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61.67073666666667	50.753996666666673			agriculturial field	Peshkin	0,01	0,01







## RU-8502 Former warehouse of toxic chemicals, Syktyvkar town, Komi Republic



Figure 9. Map of the site RU-8502







Figure 10. Sampling on the agricultural field



Figure 11. Sampling on the agricultural field







Figure 12. An investigator makes takes GPS coordinates



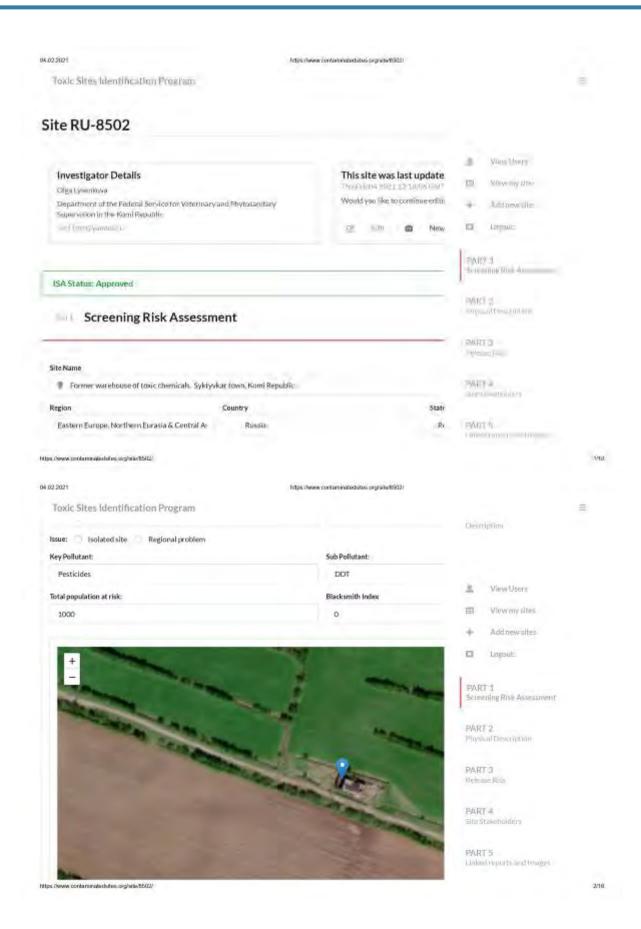




Figure 13. Sampling near the remains of the warehouse building

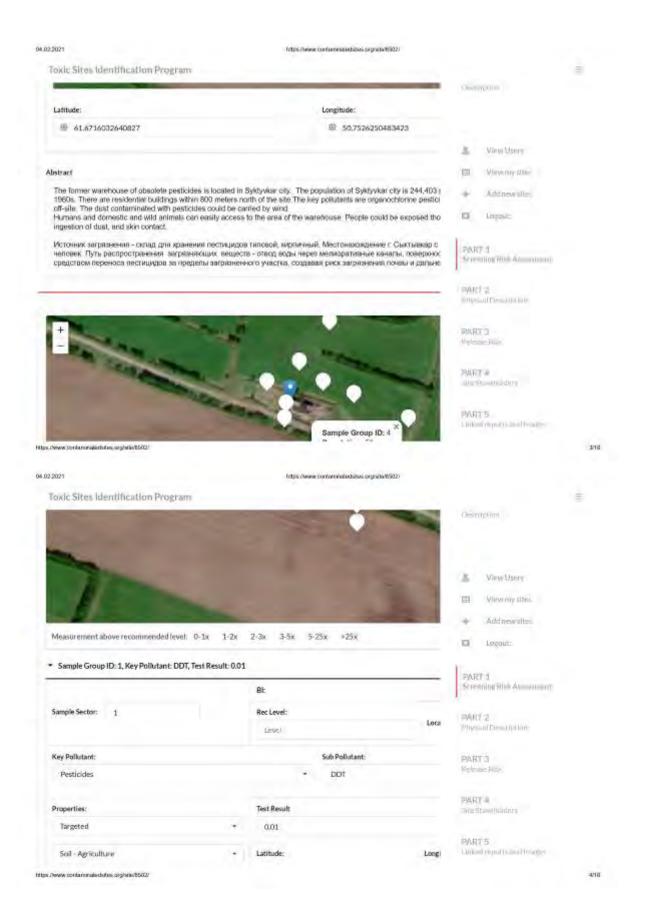
















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#### Site Assessment Report 4. RU-8513

## Former pesticide warehouse, Vizinga Village of Sysolsky District, Komi Republic

The former pesticide warehouse is located in Vizinga Village of Sysolsky District, Komi Republic 77 km from Syktyvkar City. The village is located along the banks of the Bolshaya Vizinga River. The population of Vizinga Village is 7140 people.

The warehouse was built in late 1970s. Since 1991 to 2005 about 2 tons of obsolete pesticides were removed from the warehouse.

Industrial buildings are located 100 meters north from the site. A vegetable storehouse of the Federal State Budgetary Institution "Gossortkomissia" is within 100 meters west of the site. Private-sector fields with vegetable crops are within 60 meters south. The distance to the residential buildings is more than 500 meters to the west.

The area of the warehouse is 100 square meters. The state farm Sysolsky was the owner of the warehouse.

The key pollutants are organochlorine pesticides.

Surface runoff could carry pesticides off-site. The dust contaminated with pesticides could be carried by wind.

The site is easily accessible to humans and domestic and wild animals. People could be exposed though inhalation of vapors, inhalation and ingestion of dust, and skin contact or eating crops grown close to the site.

The conducted assessment did not confirm contamination on the site with pesticides.

Село Визинга – центр сельской администрации и Сысольского района, находится в 77 км от г. Сыктывкар. Расположено по берегам р. Большая Визинга. Склад был построен в конце 70-х годов. С 1991 года по 2005 год утилизировано около 2 тонн устаревших пестицидов.

1. Местоположение и географическое описание территории - территория с бывшим складом находится близ села Визинга Сысольского района Республики Коми. В 100 метрах к северу находится промышленные здания. В 100 метрах на запад от земельного участка, на котором располагался бывший склад с пестицидами, находятся овощехранилище ФГБУ "Госсорткомиссия". В 60 метрах на юг располагаются поля частного сектора, где выращиваются овощные культуры. Расстояние до населенного пункта больше 0,5км на запад.





2. Источник загрязнения - склад для хранения пестицидов, располагается на земельном участке площадью 100 м. кв. Склад принадлежал совхозу "Сысольский".

Основные токсичные вещества - хлорорганические пестициды.

- 3. Способ миграции загрязняющих веществ поверхностный смыв является средством переноса пестицидов по загрязненному участку, создавая риск загрязнения почвы и дальнейшего распространения с водой. Риск прямого воздействия на людей из-за содержания пестицидов в верхних слоях почвы или из-за распространения с участка посредством людей или ветра.
- 4. Пути экспозиции людей попадание загрязнителя в организм человека при вдыхании пыли, употреблении загрязненной воды, пищи, выращенной на участке. Участок легко доступен для людей и домашних/диких животных.
- 5. Население, подвергающееся воздействию загрязнителя. Люди могут опосредованно контактировать с загрязнением, если они употребляют в пищу растения, выращенные на загрязненной токсичными веществами почве.
- 6. По результатам исследования в 2020 году подтвердилось отсутствие риска от воздействия загрязнителя.

l an atituda	Latituda	Dete	Town/Area	Description of the sampling	Sampler Full	DDT,	lindane,
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61.08452333333333	50.138161666666669	23.09.2020	Visinga Village	3 meters from the warehouse building	Sergey Vladimirovich Peshkin	0,01	0,01
61.084471666666666	50.137588333333333	23.09.2020	Visinga Village	30 meters from the warehouse building	Sergey Vladimirovich Peshkin	0,01	0,01
61.08443166666666	50.137423333333333	23.09.2020	Visinga Village	agriculturial field	Sergey Vladimirovich Peshkin	0,01	0,01
61.08470166666666	50.1373933333333328	23.09.2020	Visinga Village	agriculturial field	Sergey Vladimirovich Peshkin	0,01	0,01
61.084396666666663	50.138708333333334	23.09.2020	Visinga Village	drainage channel	Sergey Vladimirovich Peshkin	0,01	0,01
61.084078333333338	50.138288333333335	23.09.2020	Visinga Village	potato field	Sergey Vladimirovich Peshkin	0,01	0,01
61.084229999999998	50.137079999999997	23.09.2020	Visinga Village	potato field	Sergey Vladimirovich Peshkin	0.01	0.01
61.084346666666669	50.136479999999999	23.09.2020	Visinga Village	near forest plantations	Sergey Vladimirovich Peshkin	0,01	0,01
61.084244999999996	50.135908333333326	23.09.2020	Visinga Village	next to the road	Sergey Vladimirovich Peshkin	0,01	0,01







## RU-8513 Former pesticide warehouse, Vizinga Village of Sysolsky District



Figure 14. Map of the site RU-8513







Figure 15. Investigators working on the site



Figure 16. Sampling on the potato field



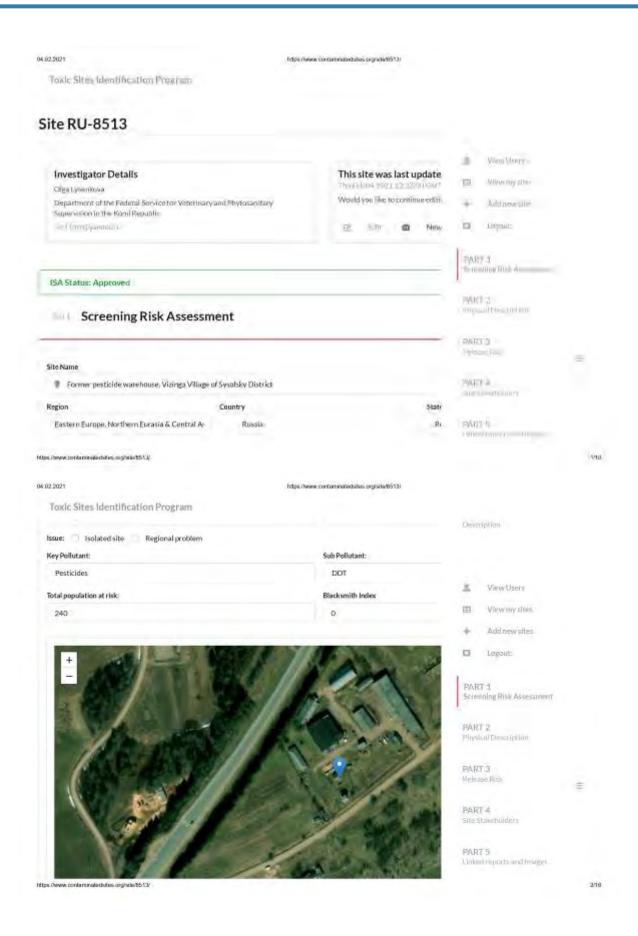




Figure 17. Sampling within 30 meters from the warehouse

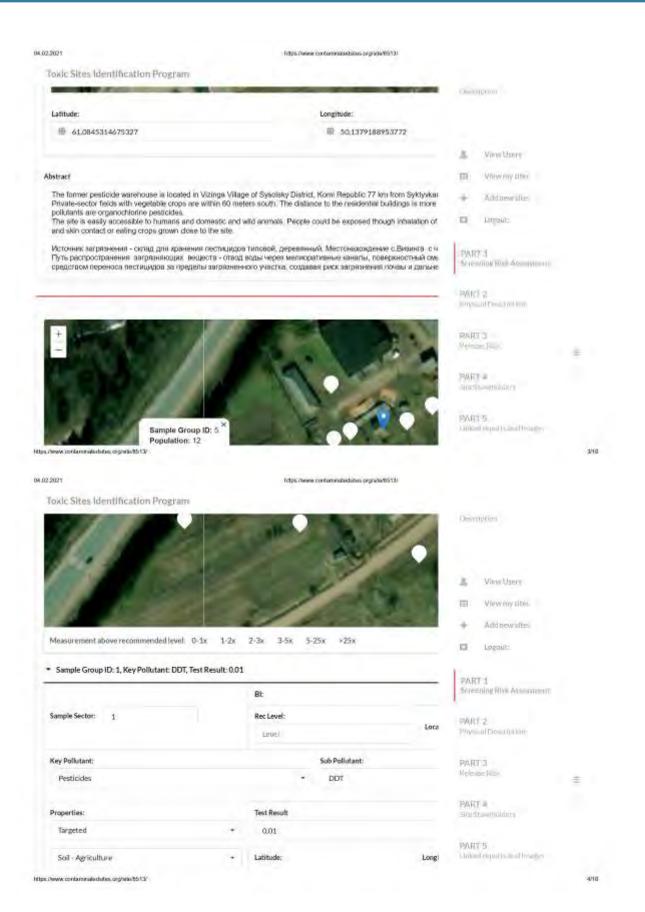
















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#### Site Assessment Report 5. RU-8530

# Former pesticides warehouse, Prigorodny Village, Kargopol District, Arkhangelsk Oblast

The former pesticide warehouse is located near Prigorodny Village, Kargopol District of Arkhangelskaya Oblast.

The industrial zone is within 50 meters west from the warehouse. The nearest industrial building is within 150 meters southwest from the site. One- or two-story wooden residential buildings are within 65 meters east from the site. The distance to the center of the Prigorodny Village is 260 meters to the north.

The source of contamination is a former pesticide warehouse. The state farm Kargopol was the owner of the warehouse. The area of the former warehouse is 100 square meters. Nowadays the warehouse building is in poor condition.

In 2003-2004 JSC "Kargopol" repackaged the obsolete pesticides in five agricultural enterprises of the Kargopol District. The total amount of repackaged pesticides was 2298 kg.

The key pollutants are organochlorine pesticides.

People and animals can enter the site easily.

Surface runoff could carry pesticides off-site. The dust contaminated with pesticides could be carried by wind. People could be exposed to inhalation of vapors, inhalation and ingestion of dust, skin contact, or consumption animal products.

The conducted assessment did not confirm contamination on the site with pesticides.

- 1. Местоположение и географическое описание территории территория с бывшим складом находится близ посёлка Пригородный Каргопольского района Архангельской области. В 150 метрах к юго-западу находится здание промышленного назначения. К западу от земельного участка в 50 м располагается промышленная зона. В 65 метрах на восток от земельного участка, на котором располагался склад с пестицидами, в настоящее время построены одно-двухэтажные деревянные жилые дома. Расстояние до центра населенного пункта 260 метров на север.
- 2. Источник загрязнения склад для хранения пестицидов. Склад располагается на земельном участке площадью 100 м. кв. Склад принадлежал ЗАО "Каргополь". Требовал ремонта.

Основные токсичные вещества - хлорорганические пестициды.





- 3. Способ миграции загрязняющих веществ поверхностный смыв является средством переноса пестицидов по загрязненному участку, создавая риск загрязнения почвы и дальнейшего распространения с водой. Риск прямого воздействия на людей из-за содержания пестицидов в верхних слоях почвы или из-за распространения с участка посредством людей или ветра.
- 4. Пути экспозиции людей попадание загрязнителя в организм человека при вдыхании пыли, употреблении загрязненной воды, пищи, выращенной на участке. Участок легко доступен для людей и домашних/диких животных.
- 5. Население, подвергающееся воздействию загрязнителя сток с участка мог попадать с грунтовыми водами, на расстоянии до участка пасли скот, домашних животных, радом жилые дома, гуляют дети. Получают питьевую воду централизованную. У местных жителей дома в основном деревянные. Детей в основном по двое в семьях. Жилые зоны частично находятся с подветренной стороны от источника воздушного загрязнения. В настоящее время люди не проходят возле источника загрязнения по дороге на работу/школу. По территории поселения проходят автодороги общего пользования.
- 6. По результатам исследования в 2020 году подтвердилось отсутствие риска от воздействия загрязнителя.

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38,91172	61,50008	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
				Land area		
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38,91177	61,50007	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
				Land area		
				overgrown with		
38,91179	61,50003	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
				Land area		
				overgrown with		
38.91183	61.5000	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
				Land area		
				overgrown with		
38,91187	61,49997	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
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				overgrown with		
38,91175	61,5001	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
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38,91181	61,5001	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
				Land area		
				overgrown with		
38,9119	61,50012	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
				Land area		
				overgrown with		
38,91196	61,50012	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
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				overgrown with		
38,91206	61,50011	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01
·				•	•	





				Land area		
				overgrown with		
38,9121	61,50013	23.09.2020	Prigorodny Village	weeds	A. Sverlov	<0.01



## RU-8530 Former pesticides warehouse, Prigorodny Village, Kargopol District



Figure 18. Map of the site RU-8530







Figure 19. Residential buildings near the former warehouse







Figure 20. Sampling on the site



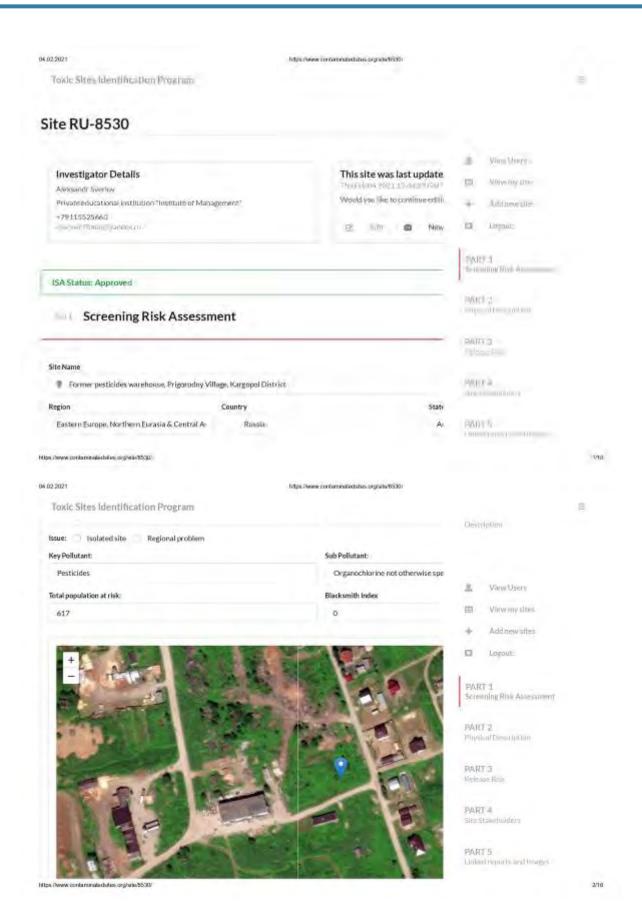




Figure 21. Residential buildings near the site

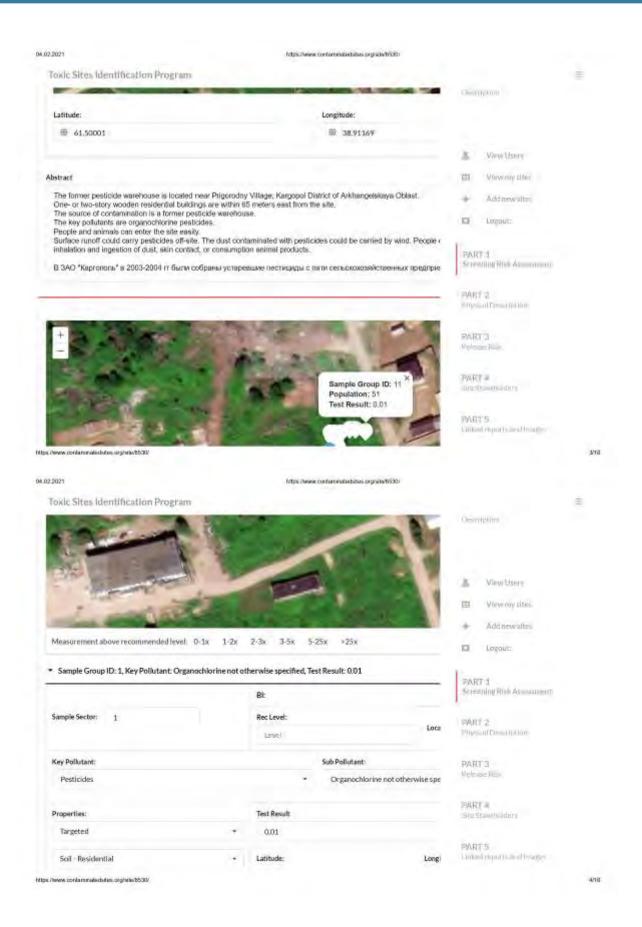
















25021	Intige newwormenspectation or graduits 30:	
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The farmer pesticide warehouse is located near Prigoradiny \ The industrial zone is within 50 meters west from the wareho	use. The negrest industrial building is willtin 150 meters a	
wooden residential buildings are within 65 meters east from The source of confamiliation is a former pesticide warehouse	. The state farm Kargopol was the owner of the warehour	(BM(f) 3
100 square moters. Newadays the warehouse building is in p In 2003-2004 JSC "Kargopol" repackaged the obsolete pesti		
pesticides was 2298 kg. The key pollutants are organischlorine pesticides.		10017
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People and animals can enter the site easily.		
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4.02.5021	Ifd	tps (liwww.conformatpatatos.co.grapa/9539))		
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II Food annuas/ issi worm 2008		> (words are produced within	A Constant	
Type of Water Body:		Is there possible groundwater contami	PART 2	
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What is the groundwater used for?			PART3	
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188			PART N	
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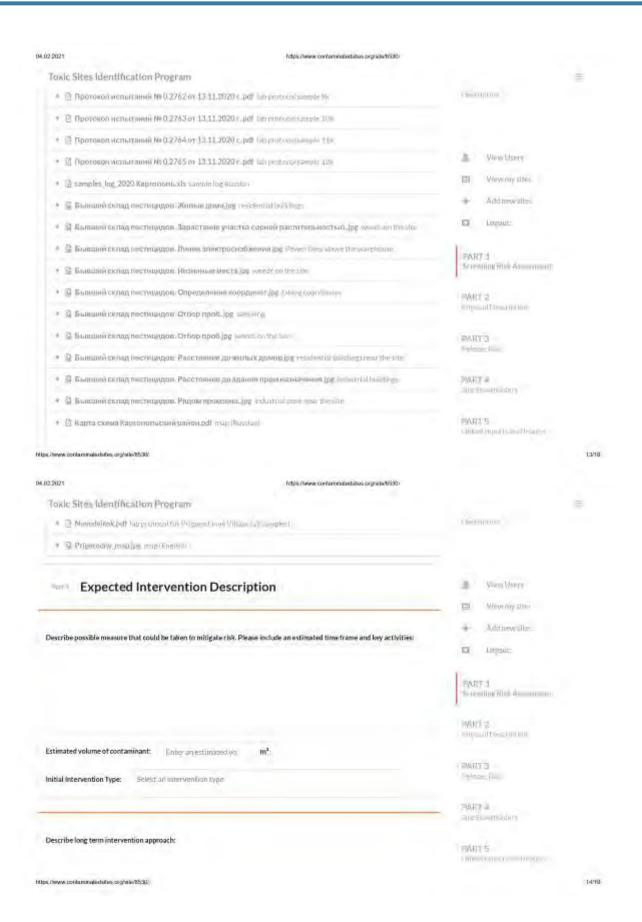




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### Site Assessment Report 6. RU-8531

## Former pesticides warehouse, Rovdino Village, Shenkurskiy District, Arkhangelskaya Oblast

The source of contamination is a brick pesticide warehouse located in Shenkurskiy forestry enterprise, Shenkurskiy District of Arkhangelskaya Oblast. Currently the warehouse building is in ruins.

The last inventory of obsolete pesticides there was conducted in 2003. During that inventory 773 kg of obsolete pesticides were found.

The Puya River flows at a distance of 1 km from the site. There is industrial area within 400-600 meters from the site. The distance to the nearest settlement is 650 meters. The road is within 215 meters from the site.

The key pollutants are organochlorine pesticides.

Local residents do not have water supply and use drinking water from private wells.

Surface runoff could carry pesticides off-site. Residential areas are downwind of the site. The dust contaminated with pesticides could be carried by wind.

The site is easily accessible to people and animals. People could be exposed though inhalation of vapors, inhalation and ingestion of dust, skin contact or consumption of vegetables grown at the site.

The conducted assessment did not confirm contamination on the site with pesticides.

- 1. Местонахождение и географическое описание территории территория Шенкурского лесхоза (лесопитомник), Шенкурского района. В настоящее время на участке склада нет. До реки Пуя 1 км, в 400-600 метрах производственная зона, расстояние до населенного пункта Барановская 650 метров.
- 2. Источник загрязнения склад для хранения пестицидов типовой, кирпичный. В нем проходило перезатаривание устаревших пестицидов. Основные токсичные вещества хлорорганические пестициды.
- 3. Способ миграции загрязняющих веществ поверхностный смыв является средством переноса пестицидов за пределы загрязненного участка, создавая риск загрязнения почвы и дальнейшего распространения с водой. Риск прямого воздействия на людей из-за содержания пестицидов в верхних слоях почвы или из-за распространения с участка посредством людей или ветра.





- 4. Пути экспозиции людей попадание загрязнителя в организм человека при вдыхании пыли, употреблении загрязненной воды, пищи, выращенной на участке. Участок легко доступен для людей и домашних/диких животных.
- 5. Население, подвергающееся воздействию загрязнителя сток с участка мог попадать с грунтовыми водами в озеро, на расстоянии до жилой зоны пасли скот, в зоне жилых домов гуляют дети. Питьевая вода не централизованная. У местных жителей дома деревянные. Детей в основном по двое в семьях. Жилые зоны частично находятся с подветренной стороны от источника воздушного загрязнения. В настоящее время люди не проходят возле источника загрязнения по дороге на работу/школу. Расстояние до автотрассы 215 м.
- 6. По результатам исследования в 2020 году подтвердилось отсутствие риска от воздействия загрязнителя.

				T	I	
Longtitude	Latitude	Date	Town/Area Name	Description of the sampling spot	Sampler Full Name	Organochlorine pesticides, ppm
42,50886	61,72452	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50882	61,72455	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50877	61,72458	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50873	61,72461	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,5087	61,72466	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50866	61,72468	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50869	61,72445	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50866	61,72444	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50856	61,72442	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50844	61,7244	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50835	61,72438	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01
42,50829	61,72437	07.10.2020	Rovdino Village	weeds on the site	A. Sverlov	<0.01







# RU-8531 Former pesticides warehouse, Rovdino Village, Shenkurskiy District



Figure 22. Map of the site RU-8441







Figure 23. The ruins of the warehouse







Figure 24. Sampling on the site



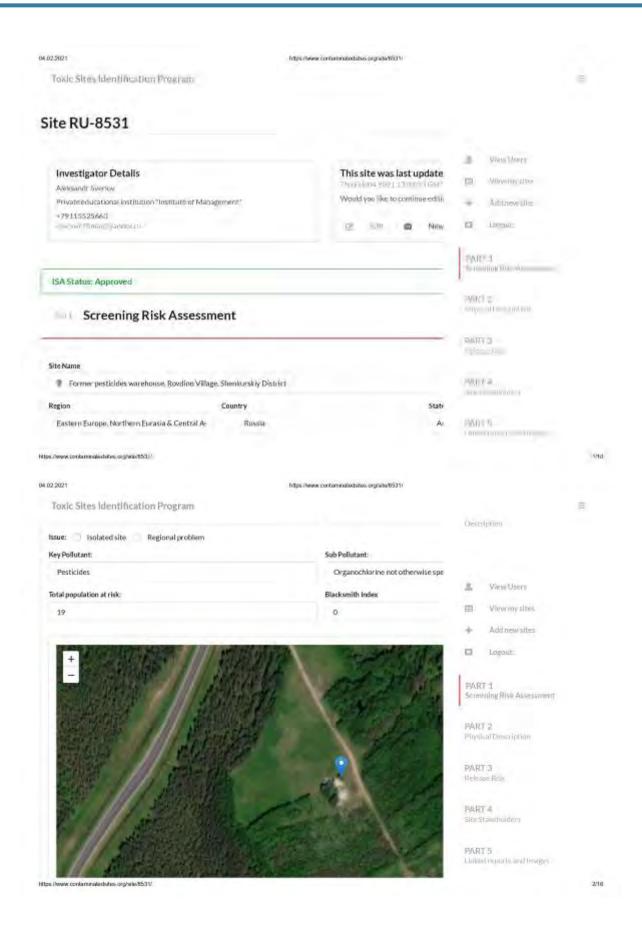




Figure 25. Planting of the forestry enterprise and remains of the warehouse buildig

















12.5021	Index news contaminate bites or grade 19311	
foxle Sites Identification Program		
Data Source Type:	Test Data Certainty:	
Investigator sampling (Lab or XRF)	- ⊗ High	
Data Source Description / Citation:		4 1000
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Population estimate confirmed by local authority		
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<ul> <li>Sample Group ID: 3, Key Pollutant: Organochlorine not off</li> <li>Sample Group ID: 4, Key Pollutant: Organochlorine not off</li> </ul>	And the Control of th	THE REAL PROPERTY.
Sample Group ID: 5, Key Pollutant: Organochlorine not off     Sample Group ID: 5, Key Pollutant: Organochlorine not off		
Sample Group ID: 6, Key Pollutant. Organochilorine not off		017
<ul> <li>Sample Group ID: 7, Key Pollutant: Organochlorine not of</li> </ul>	nerwise specified, Test Result: 0.01	
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► Sample Group ID: 11 Key Pollutant: Organochlorine not o	therwise specified, Test Result: 0.01	
Sample Group ID: 12, Key Pollutant: Organochlorine not o	therwise specified, Test Result: 0.01	
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The Puya River flows at a distance of 1 km from the site. The		DMH) 3
650 meters. The road is within 215 meters from the site: The key pollutarits are organic/horine pesticides.		
Local residents do not have water supply and use drinking v		
Surface runoff could carry pesticides off-site. Residential are		
Surface runoff could carry pesticides off-site. Residential are		mirri.





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### Site Assessment Report 7. RU-8543

### Former warehouse of pesticides, Atomanovo Village, Sukhobuzimsky District

The former warehouse of pesticides is located next to the Children's Camp "Taezhny" in the village of Atamanovo, Sukhobuzimsky District. The camp is located in a pine forest on the bank of the Yenisei River 100 km north of Krasnoyarsk city.

The Atamanovo Village is located 400 meters from the warehouse. The Yenisei River flows southeast of the warehouse.

The village of Atamanovo is located 28 km from the regional center Sukhobuzimskoye Village. The population of Atamanovo Village is 1968 people. There is a school for 290 students in the village. About 1500 children come to the camp during the summer.

The central farmstead of the Taezhny breeding farm is located in Atamanovo Village. Residential buildings in the village are mostly wooden one-story houses with solid fuel stove heating. The water supply is centralized. Also there is a deep-water well and a water tower in the village.

The wooden warehouse building now is completely destroyed. Only the concrete foundation remains. The area of the warehouse building was 10\*14 meters. The site is covered with rubble of the former warehouse building.

The last inventory of the warehouse was conducted during the ACAP project "Environmental justification for the management of the stock of obsolete pesticides in the Russian Federation" in 2008. The specialists found about 1 ton of pesticides that appeared to be DDT at the site. The powder was light gray in color with a specific odor packed in decayed paper bags with poorly readable labels.

The project team did not find traces of pesticides and didn't smell DDT during the site assessment in October 2020. The garbage and rubble of the warehouse building remained the same as in 2008.

The rainfall and wind could wash pesticides away and carry around the area.

The project team did not find evidence of human activities within 100 meters from the site.

The migration of pesticides to the residential areas is possible through air, by rain flow, with melt waters and by transport passing by. There is no curbstone on the asphalt road adjacent to the warehouse.

Former workers of Taezhny Camp said that DDT was used as an insecticide against flies, mosquitoes, gadflies. Workers pollinated forest areas and fields adjacent to the camp.





Former camp worker Vasily Savelyevich Kushnir (phone +7 323 305 59 69) confirmed the presence of DDT in the former warehouse. He said that it was used in the camp.

Former camp worker Olga Anatolyevna Takbilatova (phone +7 963 254 97 25) also confirmed the presence and use of pesticides.

They didn't have information that the pesticides were removed from the site and taken to a landfill.

The project team took samples from 3 sides of the warehouse. They also took line samples in two directions: towards the Yenisei River and towards the village of Atamanovo. The migration of pesticides in both directions is most likely with water and wind.

The soil at the site contains gravel has a high absorption capacity, so pollutants could penetrate deep into the soil.

The nearest residential building doesn't have central water supply. The residents bring water from a well for drinking. There was no evidence of pesticide poisoning among local population.

The area of the camp is fenced and guarded. The children cannot get to the warehouse.

There is very little traffic near the. During the three days visiting the site, the investigators recorded the one truck and two cars passing by.

The site assessment found trace amounts of organochlorine pesticides at the site.

Склад находится на территории Муниципального унитарного предприятия Детский спортивно-оздоровительный комплекс «Таежный» (МУП ДСОК «Таежный») в районе бывшего лагеря №4 в поселке Атаманово Сухобузимского района Красноярского края на берегу реки Енисей в сосновом бору. Участок расположен в 100 км от города Красноярска в северном направлении. Лагерь № 4 ликвидирован в порядке реконструкции. Поселок Атаманово находится в 28 км от районного центра с. Сухобузимское. Население поселка составляет 1968 человек. В поселке имеется общеобразовательная школа на 290 учеников. Детский оздоровительный лагерь «Таежный», принимает до 1500 детей за смену.

В п. Атаманово находится центральная усадьба племзавода «Таежный». Жилые дома в основном деревянные, одноэтажные с печным отоплением. Водоснабжение поселка централизовано, имеется глубоководная скважина, водонапорная башня.

На участке расположен деревянный склад размером 10 х 14 м, полностью разрушенный. От здания сохранился только бетонный пол, заваленный





мусором и остатками конструкций склада. В период проведения работ по углубленной инвентаризации запасов устаревших пестицидов, выполняемого в рамках проекта АКАП «Экологическое обоснование управление запасом устаревших пестицидов на территории Российской Федерации» в 2008 году, на развалинах склада в рассыпанном состоянии в полуистлевших бумажных пакетах и мешках с нечитаемой маркировкой находился предположительно ДДТ светло-серого цвета около 1 тонны с сильным характерным запахом. Диаметр кучи составил диаметре 10 м. В период проведения экологической оценки участка в октябре 2020 г. запах не ощущался. Мусор и обломки склада находились на прежнем месте, видимых следов пестицидов не обнаружено. На территории, прилагающей к складу, находятся разрушенные производственные постройки. В 5 м от склада проходит асфальтированная дорога, идущая из поселка Атаманово к жилому дому на 3 квартиры на территории оздоровительного комплекса. В доме проживает 5 человек. Расстояние до склада 250 м.

При обследовании бывшего склада было сделано предположение, что ранее хранящиеся в нем пестициды препараты никуда не вывозились, а были размыты сезонными водами, дождевыми осадками и разнесены ветром.

Поселок Атаманово находится на расстоянии 400 метров от склада. Река Енисей протекает в юго-восточном направлении от склада. Тропинок и мест пребывания людей в радиусе 100 м от склада не установлено. Перенос пестицидов к зонам жилых застроек возможен по воздуху, а также дождевыми и талыми водами и проезжающим мимо автотранспортом. На прилегающей к складу асфальтированной дороге не имеется бордюрного камня.

Со слов бывших работников МУП ДСОК «Таежный», дуст ДДТ использовался в качестве инсектицида при борьбе с насекомыми (мухами, комарами, оводами). Им опыляли участки леса и поля, прилегающие к лагерю.

Бывший работник лагеря № 4 Кушнир Василий Савельевич (т. 8 323 305 59 69), подтвердил наличие в бывшем складе дуста ДДТ и его применение на территории лагеря. Бывший работник лагеря Такбылатова Ольга Анатольевна (т. 8 963 254 97 25) также подтвердила наличие и применение данного препарата. Сведений о возможном вывозе веществ с разрушенного склада на полигон длительного хранения не имеется.

Одна из сторон бывшего склада в северном направлении прилегала к производственной постройке с бетонным полом. Постройка в настоящее время полностью разрушена. Сетевые пробы отобраны с 3-х сторон склада, где имеется почвенный покров, а линейные пробы отобраны в двух направлениях: в сторону р. Енисей и в сторону п. Атаманово. Перенос пестицидов в обоих выбранных направлениях наиболее вероятен паводковыми водами и ветром. В летнее время перенос пестицидов дождевыми осадками маловероятен, т.к. грунты гравелистые, имеют высокую поглощающую способность, поэтому загрязняющие вещества могли проникнуть глубоко в почву. Ближайший жилой





дом не имеет центрального водоснабжения, вода привозная. Случаев отравления ядохимикатами среди местного населения не установлено.

Территория оздоровительного комплекса «Таежный» огорожена и охраняется. Каждый из имеющихся 6 лагерей также огорожен. Перемещения детей по территории бывшего лагеря №4 исключено.

Движения транспорта возле участка имеет случайный характер. В период проведения исследований за три дня нахождения исследователей в данном месте зафиксирован проезд трех единиц автотранспорта: 1 грузовая машина и 2 легковых.

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93,667084	56,406707	24.10. 2020	Ataman ovo Village		S. Kuligin V. Kolpashchikov	0,0015	0,00022	0,00011	0	0	0,0014
93,664014	56,406691	24.10. 2020	Ataman ovo Village		S. Kuligin V. Kolpashchikov	0,013	0,0007	0,00011	0,0012	0,0019	0,011
93,662182	56,406613	24.10. 2020	Ataman ovo Village		S. Kuligin V. Kolpashchikov	0,02	0,0027	0,00054	0,0011	0,0017	0,009
93,666619	56,405575	24.10. 2020	Ataman ovo Village		S. Kuligin V. Kolpashchikov	0,014	0,00058	0,0007	0,00016	0,0014	0,011
93,666845	56,404583	24.10. 2020	Ataman ovo Village		S. Kuligin V. Kolpashchikov	0,028	0,009	0,0011	0,0008	0,0021	0,01





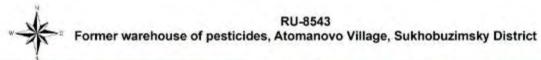




Figure 23. Map of the site RU-8543







Figure 24. General view



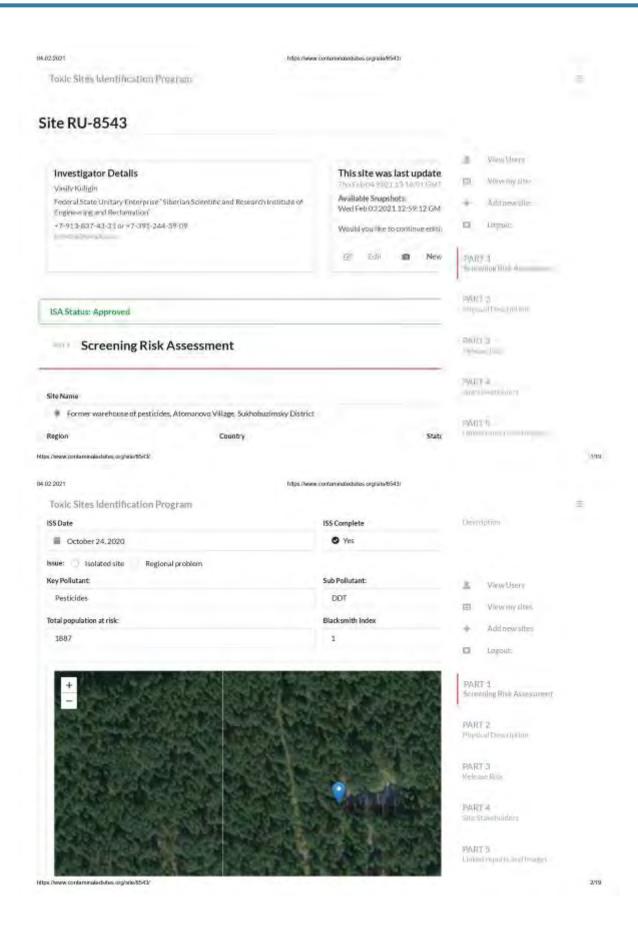




Figure 25. The remains of the warehouse building

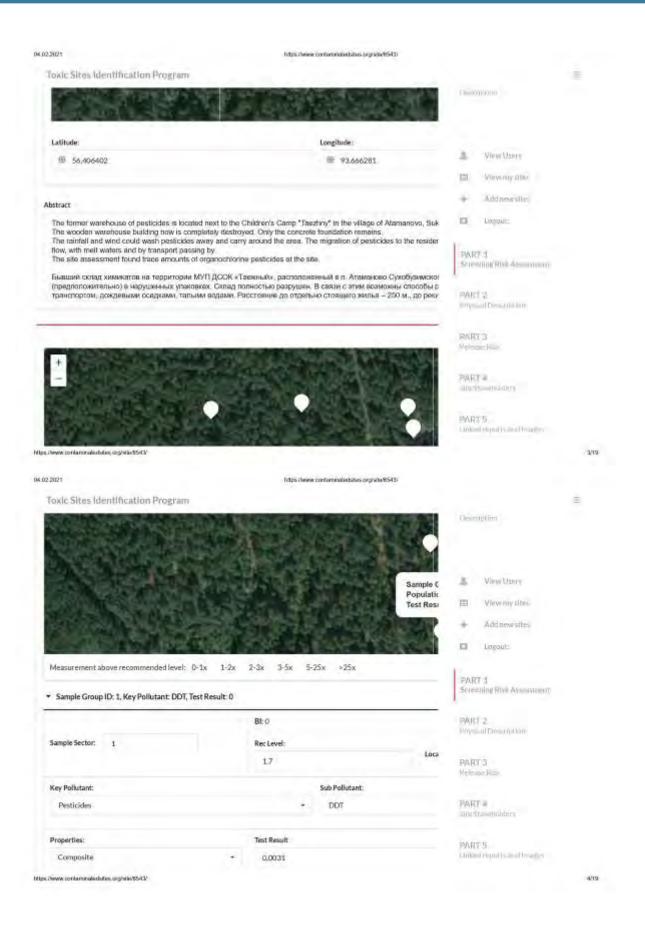












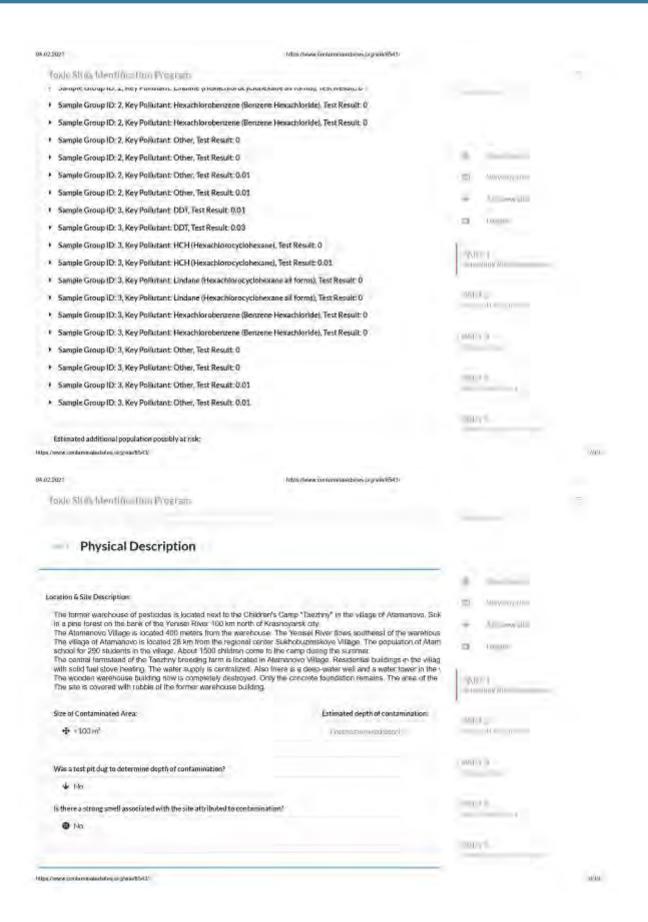
















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If water at the site is contaminated, is the	ere another source of clean water availa	ble?			
No				MARK II	
Describe the access to the contaminated	dama	Describe the area and asset	othere		
Easy access, few barrier to entry		Describe the ground cover over		PA(I / a Star to successors	
		The site is covered with cor- condition	ntreteo		
				PARTA.	
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In which direction  Distance to the closest well  Distance to the			BADES	
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#### Site Assessment Report 8. RU-8544

## Pesticide warehouse in Mokrushenskoye Village of Kazachinsky District, Krasnoyarsky krai

The obsolete pesticide warehouse is located in Mokrushenskoye Village, Kazachinsky District, Krasnoyarsky krai. Currently the warehouse building belongs to local farm. The warehouse has not operated for about 25 years. The warehouse building is wooden and consists of two identical sections. The size of the building is 6 \* 8 meters. The warehouse has a slate roof, which is partially destroyed. There are holes in the walls. The windows of the building are filled with boards. There are no locks on the wooden doors, the floor of the warehouse is ground.

The nearest residential buildings are located 120 m to the northwest. The distance to the forest is 200 m. The Yenisei River is within 1.2 km. The area of the warehouse is fenced.

In 2008 there was an inventory of the warehouse during the ACAP project "Environmental justification for the management of the stock of obsolete pesticides in the Russian Federation". The specialists found about 3,5 tons of obsolete pesticides including: tseb in tubes and in bulk - 285 kg, granosan in barrels - 825 kg, 2.4.5.-trichlorophenol TCP in bulk and in damaged bags - 105 kg, unknown mercury-containing powdery substance TMTD - 420 kg, phenoram – 370 kg, baytan – 25 kg, trialate – 400 l, hexochlorane – 120 kg, as well as an unknown powdery gray substance – about 1 ton.

The project team found about 500-600 kg of pesticides on the floor of the warehouse during the assessment. There was strong smell in the warehouse building. Local residents feel it in their homes at a distance of 120 m from the warehouse. The migration of pesticides from the warehouse is possible both through the air through cracks in the walls and windows, and through washing out by rainfall due to damage to the roof. The access of people into the warehouse is not possible. The door and windows are blocked.

During the implementation of the regional program "Waste management of the Krasnoyarsk Territory", the obsolete pesticides were removed from the warehouse and placed at the Serebristy landfill located in the suburbs of Krasnoyarsk. All of the paper, plastic, cardboard and metal containers with pesticides were damaged.

CJSC "Zeleny Gorod" implemented the cleanup. Unfortunately, the organization did not clean up the site thoroughly. The workers did not completely clean the spilled pesticides from the warehouse, did not excavate the soil from the warehouse building.

A local resident Alexander Alexandrovich Elistratov (tel. +7 933 328 04 48) lives at 9, Opitnaya Street. His house is within 120 meters from the warehouse. Alexander Elistratov smells pesticides when the westen and southwestern winds blow.





Mikhail Vladimirovich Zhulikov (tel. +7 923 363 42 93) lives at 10, Opitnaya Street. He said that he also smells pesticides. The smell of chemicals spreads near the warehouse during calm weather.

Weeds grow around the warehouse area. There is noticeably less grass near the warehouse door. It is possible that the soil was heavily contaminated during the loading of pesticides in this place.

There is a path 20 meters from the warehouse. Employees of the farm walk on it every day.

The area of the site is flat. Investigators took linear samples towards residential buildings and down the ravine.

There is a deep water well in the village. Water from there is supplied to local residents by centralized water system. About 30% of the residents use wells in their private yards. People don't complain about the quality of the water.

Local residents mostly have one-story wooden houses. Residential buildings are located on the leeward side of the warehouse.

There is a road within 30 meters from the site. About 5-7 cars per day drive on that road. Transport can carry pollutants into the village.

The assessment found pesticide contamination at the site.

Бывший склад пестицидов находится на восточной окраине с. Мокрушинское на территории бывшего ОПХ «Мокрушинское», в настоящее время принадлежит фермерскому хозяйству. Склад не эксплуатируется около 25 лет. Склад построен из деревянных бревен. Размер склада 6 х 8 м, состоит из 2-х одинаковых отделений. Шиферная крыша частично разрушена. В стенах имеются отверстия, окна без стекол и забиты досками. Имеются большие щели между досками. Двери деревянные, без замков, пол земляной. В одном из отделений половина пола закрыта досками. Расстояние между складом и жилыми домами, находящимися в северо-западном направлении, составляет 120 м, расстояние до леса – 200 м. До ближайшего водного объекта (р. Енисей) 1,2 км. Территория, на которой находится склад, огорожена.

При инвентаризационном обследовании склада в рамках проекта АКАП «Экологически обоснованное управление запасами устаревших пестицидов на территории Российское Федерации» в 2008 г. в складе находилось около 3,5 тонн пестицидов, в т. ч. ценеб в тубах и россыпью – 285 кг., гранозан в бочках – 825 кг, 2.4.5. – трихлорфенол ТСР россыпью и в поврежденных мешках, 105 кг., неизвестное ртутьсодержащее порошкообразное вещество, ТМТД – 420 кг, фенорам 370, байтан – 25 кг, триалат 400 л, гексохлоран -120 кг, а также неизвестное порошкообразное вещество серого цвета около 1 т. Вся тара – бумажная, полиэтиленовая, картонная и металлическая, - повреждена. При





реализации краевой целевой программы «Обращение с отходами Красноярского края» устаревшие пестициды из склада были вывезены и размещены на полигоне «Серебристый», находящийся в пригороде г. Красноярска. Работа по вывозу пестицидов была возложена на подрядную организацию ЗАО «Зеленый город», которая не выполнила полную очистку склада от рассыпанных пестицидов, не произвела выемку грунта внутри склада, покрытого слоем рассыпанных пестицидов. Со слов местного жителя Елистратова Александра Александровича т. 8 933 328 04 48, проживающего в доме по ул. Опытная д. 9, находящегося на расстоянии 120 м от склада, запах дуста постоянно ощущается при западном и юго-западном ветре. Второй местный житель, Жуликов Михаил Владимирович (т. 8 923 363 42 93), проживающий по адресу ул. Опытная д. 10 сообщил, что также ощущает данный запах. Запах химикатов распространяется возле склада и в безветренную погоду.

Перенос пестицидов, находящихся на складе возможен, как по воздуху через щели в стенах и окнах, так и вымываться дождевыми осадками из — за повреждения крыши. Проход посторонних лиц в склад в настоящее время исключен — дверь и окна забиты. Территория вокруг склада заросла бурьяном, со стороны дверей склада трава растет заметно слабее, что говорит о возможном сильном загрязнении почвы пестицидами в период проведения погрузо-разгрузочных работ. В 20 м от склада находится тропинка, по которой перемещаются работники фермерского хозяйства.

Местность, на которой расположен склад обладает неровным рельефом. Склад стоит на краю холма, поэтому при выборе направления для отбора линейных проб было выбрано два — одна линия была проложена в сторону жилых домов вниз по склону холма, другая была проложена вниз по лощине. Сетевые сборные пробы в количестве 6 штук отобраны вокруг склада.

Водоснабжение населенного пункта производится от глубинного водозабора, около 30 % жителей пользуются колодцами, вырытых на частных подворьях. Жалоб на плохое качество воды не имеется. Жилые дома расположены с подветренной стороны, постройки одноэтажные, деревянные. На расстоянии 40 м от склада у местных жителей имеются хозяйственные постройки, вдоль которых проложены тропинки. Так же за забором, огораживающим территорию, на расстоянии 30 м от склада проходит полевая дорога, по которой проходит 5 – 7 машин в день. Данное обстоятельство может приводить к переносу загрязненных веществ по всему с. Мокрушинское.

Longtitude	Latitude	Date	Town/Area Name	Descripti on of the sampling spot	Sampler Full Name	4,4- DDT. Ppm	alpha- HCH, ppm	gamma- HCH (lindane), ppm	Hexachl oro benzen e, ppm	DDD, ppm	DDE, ppm
93,202118	57,519597	20.10. 2020	Mokrushinskoye Village	The area of the former	S. Kuligin V. Kolpashchikov	0,071	25	2,1	0,3	0,13	0





93,202282	57,519705	20.10. 2020	Mokrushinskoye Village	warehou se	S. Kuligin V. Kolpashchikov	0,037	10	1,3	0,013	1,6	0
93,201879	57,519617	20.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,03	0,25	0,08	0,0015	0,08	0,012
93,201854	57,519746	20.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,0071	0,07	0,014	0,0008	0,01	0,0016
93,202018	57,519817	20.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,0081	0,14	0,09	0,0034	0,015	0,00053
93,202206	57,519803	20.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,007	0,026	0,0053	0,00024	0,0027	0,00036
93,202691	57,520084	28.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,0036	0,018	0,0058	0,0013	0,0034	0,00049
93,203231	57,520483	28.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,0014	0,019	0,032	0,001	0,0008	0
93,201533	57,520023	28.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,0039	0,023	0,009	0	0,0005	0,00024
93,200898	57,52026	28.10. 2020	Mokrushinskoye Village		S. Kuligin V. Kolpashchikov	0,0012	0,07	0,07	0	0,0009	0



RU-8544
Pesticide warehouse in Mokrushenskoye Village of Kazachinsky District







Figure 26. Map of the site RU-8544



Figure 27. Former warehouse building







Figure 28. Inside the warehouse building



Figure 29. Inside the warehouse building







Figure 30. Sampling near the warehouse building



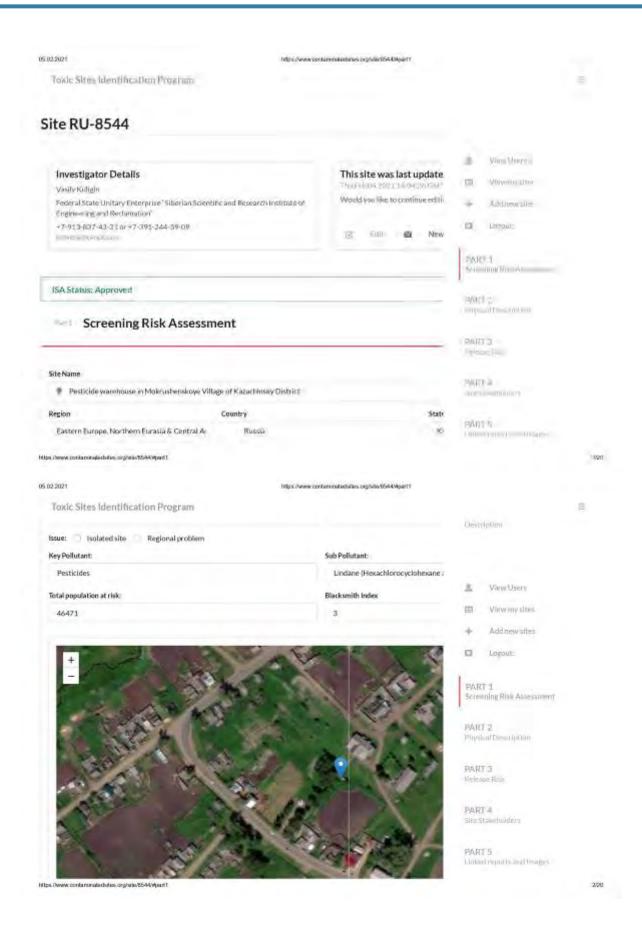




Figure 31. Pesticide packaging – 12% DDT / Hexachlorcyclohexan

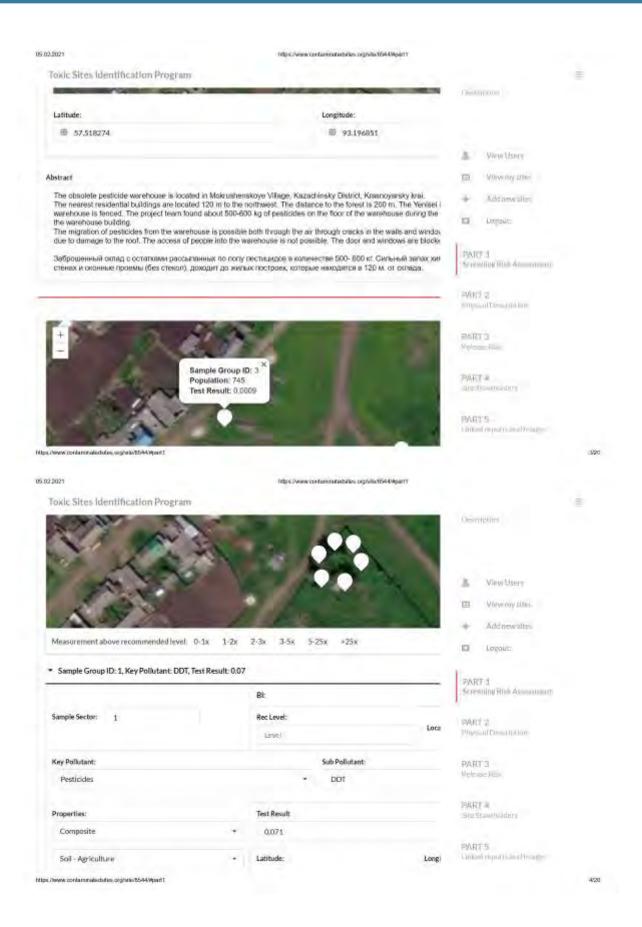






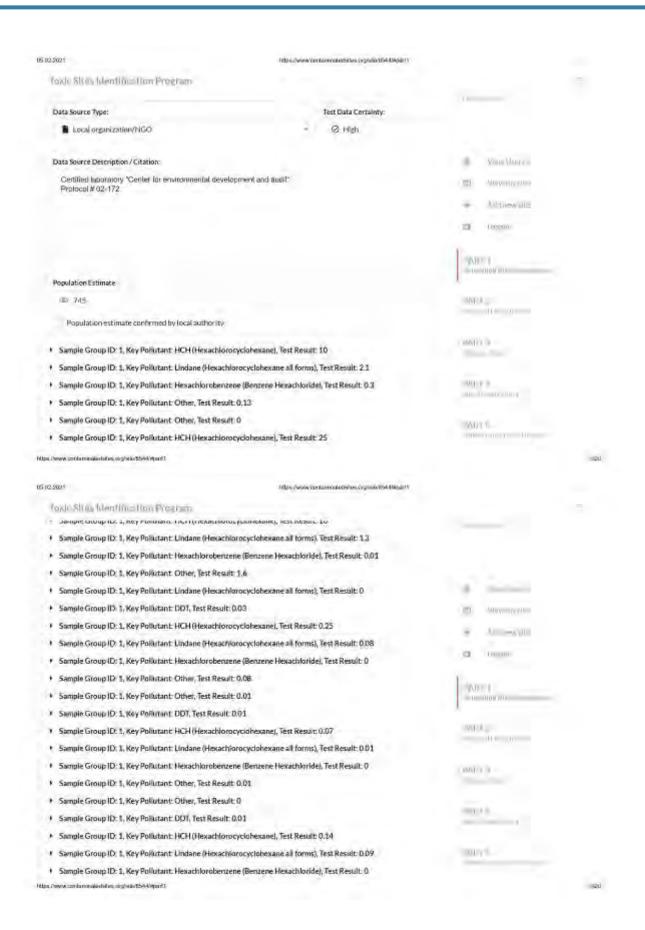
















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What is the groundwater used for?				
★ Selectione				
If water at the site is contaminated, is there another source of clea	an water available?	6	Wass Marry	
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Describe the access to the contaminated area	Describe the ground cover over the cor	+	Addressile	
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Describe credible health impact of pollutant. Append any existing	studies (scan and pdf) to Part 6. Indicate anecdotal evidence c	HAVE	15.00	
			NA.	
Liberary popular min elekschallen, copyleria/15544/epartil				102
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		PAR	173	
is there permanent surface water on the site?	What is it used for?	100	S-F.	
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is there evidence of a high water table or ground water?	Depth of the water table		G-Modern	
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is the site in a flood plain?			N. S.	
Lifeway portaminalachilan coghrant544/epuril				12/2





2,901	Into Awww.cs	etamenatechiles cegnilio/8544/Apai/17		
Toxic Sites Identification Program				=
Distance to the closest river or water body downstrea	m of the contaminated site		1	
→ 300 m to 1 km				
			Acces	
Distance to the closest well		In which direction?	Was there.	
→ Within 500m of contamination		O Northwest		
Position of the contaminants relative to the slope		is this a storage facility for chemicals st	A Milliew utility	
▲ Above ground level and slope is flat		<b>⊗</b> Yes	The Company	
Number of containers on site		Other pollutant storage	-KW-1	
E Louisinersonshe		& Residue or spills only	ICHION /Ox	
Please list the primary chemicals stored at the site				
tseb in tubes and in bulk - 285 kg, granosan in bar	rrels - 825 kg, 2.4.5trichlorophe	nol TCP in bulk and in damaged bags - 1	VIELE,	
Specify the concentration of pesticide		Identification Method		
Edinatriiumily	ppm	Inventory or written records	SWICE CO.	
Location	1 500	Building Type		
● Inside building with poor roof		☐ Incomplete or poor wills	SALT STORY	
Please describe the floor		Cover Type  A Ditinut or poor cover	=M27 1.	
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Mikhail Vladimirovich Zhulikov (tel. +7 923 363 42	2 93) lives at 10, Opinaya Street.	X	
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#### Site Assessment Report 9. RU-8546

# Former pesticide warehouse, Nakhvalskoe Village of Sukhobuzimsky District, Krasnoyarsky kray

The former pesticides warehouse is located on the lands of the former state farm "Gorsky". The state farm is located on the northern outskirts of Nakhvalskoe Village of Sukhobuzimsky District, Krasnoyarsk Region. The village of Nakhvalskoye is located 105 km northeastern from Krasnoyarsk city on the bank of Buzim River 8 km from its confluence with the Yenisei River.

The residential buildings are within 300 meters from the site. Forest is within 300 meters from the site. The nearest watercourse is within 500 meters.

The population of the village is 1771 people. There is an elementary school in the village.

The warehouse belonged to Gorsky state farm until 1992. In 2000-s the state farm ran bankrupt. The household and industrial buildings were dismantled. The pesticide warehouse building was completely destroyed.

In 2008 there was an inventory of obsolete pesticides. It was found that there were about 10 tons of various pesticides in poor containers including old metal drums in the site. The pesticides were located in the open air without any shed. There were granosan, phenoram, simazine, as well as an unidentified organic compounds. Pesticides were stored there until 2010.

The employees of the state farm used those pesticides in agriculture.

The project team visited the site in October, 2020. Weeds and small bushes grow around the warehouse. The size of the warehouse is 20 \* 80 meters. Only the foundation and destroyed support beams remain of the warehouse building. There is a pile of soil 6-7 meters in diameter to the west side of the warehouse.

Local residents said that the pesticide residues were removed from the site in 2012, and then the area of the warehouse was leveled with a bulldozer.

The project team believes that the area of the warehouse is still contaminated with pesticides.

The area of the site is flat. The team took linear samples over 100 m sections towards the agricultural fields and towards the water tower which is within 250 from the site. The terrain of the site is flat.

Weeds and small bushes grow everywhere on the site. There are abandoned garage and boiler room near the warehouse building.





Livestock may enter to the site occasionally.

Local residents set up an electric fence around the warehouse. They are afraid that the animals could be poisoned by pesticides.

However, the project team couldn't get any information about poisoning of animals or people on the site. Nobody complained about it.

The obsolete pesticides were stored uncovered in destroyed packages for 10 years. They were exposed to atmospheric precipitation, extreme temperatures, wind, and could be carried to the village by domestic cattle and passing vehicles.

The project team took linear samples based on the relief of the site.

During cleaning in 2012 the topsoil was not removed to the landfill. This soil was just moved to a nearby dump. Investigators took a soil sample from this dump.

People can be exposed to inhalation of vapors and contaminated dust, possible dermal contact.

Organochlorine pesticides were found in all soils samples taken at the site.

Бывший склад пестицидов расположен на территории производственной базы центрального отделения бывшего совхоза "Горский" на северной окраине с. Нахвальское Сухобузимского района Красноярского края.

Село Нахвальское находится в 105 км от г. Красноярск в северо-восточном направлении, а р. Бузим в 8 км от её впадения в р. Енисей в урочище Нахвальском. Предположительно ранее на месте села находилось русло р. Енисей. Население села составляет 1771 человек. Имеется общеобразовательная школа. Глава муниципального образования Гимбал Наталья Ивановна т. (39199)3-342.

Совхоз «Горский», центральная усадьба которого до 1992 г. находилась в с. Нахвальское, обанкротился в начале 2000-годов. Хозяйственные и производственные помещения были разобраны или разрушены. Склад пестицидов был полностью разрушен.

На момент инвентаризационного обследования в 2008 г., на месте склада под открытым небом находилось около 10 т. различных пестицидов в разрушенной и полуразрушенной таре, в т. ч. в металлических бочках. Ранее эти пестициды использовались в сельскохозяйственном производстве.

На момент проведения исследования в октябре 2020г. склад представлял собой участок земли, заросший травой и мелким кустарником. От склада, размером 20 х 80 м, сохранились остатки фундамента, спилы опорных балок. Видимых остатков брошенных пестицидов не обнаружено. С западной стороны территории склада имеется куча грунта диаметром 6 - 7 метров.





Со слов местных жителей остатки пестицидов были вывезены в 2012 году, а территория склада выровнена бульдозером. Вероятность нахождения остатков устаревших пестицидов на месте нахождения склада и в рядом находящейся куче грунта достаточно высока. Сетевые пробы была взяты на участке нахождения бывшего склада, а линейные пробы - на отрезках по 100 м по двум направлениям - в сторону сельхозполей по микропонижению рельефа и в сторону водонапорной башни, находящейся на расстоянии 250 м от исследуемого участка. Вся территория бывшей производственной базы представляет собой заросшую травой и кустарником площадь с остатками строений (склад, гараж, котельная). Рельеф местности равнинный. На территорию где был склад, периодически заходит крупный рогатый скот местных жителей. Жителями самостоятельно установлена электроизгородь вокруг участка склада из-за имеющихся опасений отравления скота. Установить факт отравления людей или животных не удалось. Вероятность загрязнения почвы участка, где находился склад пестицидов и возле него высока. В течении 10 лет устаревшие пестициды находились в разрушенных упаковках под открытым небом, подвергались воздействию атмосферных осадков, температурным перепадам, ветровому воздействию, могли переноситься домашним крупнорогатым скотом и проезжающим автотранспортом, т.к. через территорию бывшего склада проходит несколько грунтовых дорог. Поскольку пол в складе отсутствовал, весьма вероятно попадание пестицидов в земляное основание, поэтому земляные пробы брали на участке бывшего склада. Линейные пробы отбирались по направлению, где наиболее высока вероятность переноса пестицидов ветром и дождевыми осадками, по выраженному микропонижению рельефа. После перемещения устаревших пестицидов в место длительного хранения в 2012 году (г. Красноярск, полигон "Серебристый") верхний слой грунта не вывозился, а был перемещен в рядом находившийся отвал, с которого была отобрана сборная проба, а также проба из середины отвала на глубине 1м.

Согласно результатам проведенного химического анализа почвенных проб исследуемого участка, во всех отобранных образцах выявлено наличие пестицидов, в т. ч. хлорорганических.

Longtitude	Latitude	Date	Town/Area Name	Descrip tion of the samplin g spot	Sampler Full Name	4,4- DDT. Ppm	alpha- HCH, ppm	gamma- HCH (lindane), ppm	Hexachloro benzene, ppm	DDD, ppm	DDE, ppm
93,567734	56,671547	17.10.2020	Nakhvalinskoye Village	The former producti on base	S. Kuligin V. Kolpashchikov	0,003	0,0008	0,00022	0	0,00049	0,00055
93,567734	56,671547	17.10.2020	Nakhvalinskoye Village	overgro wn with grass	S. Kuligin V. Kolpashchikov	0,0037	0,0012	0,00038	0	0,0009	0,00061





93,568628	56,671677	17.10.2020	Nakhvalinskoye Village	and shrubs	S. Kuligin V. Kolpashchikov	0,001	0,001	0,0008	0	0,001	0,00024
93,568408	56,671723	17.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,0048	0,0012	0,0007	0	0,0008	0,00019
93,568395	56,67163	17.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,012	0,007	0,0027	0,00022	0,0027	0,00075
93,568226	56,671687	17.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,0033	0,00045	0,00031	0	0,00061	0,00014
93,568232	56,671573	17.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,0047	0,0013	0,0009	0	0,0011	0,00031
93,567999	56,671641	17.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,0087	0,0011	0,00058	0	0,002	0,00058
93,569485	56,671591	18.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,0078	0,0016	0,00015	0	0,02	0,001
93,570797	56,671605	18.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,0014	0,0016	0,00015	0,0001	0,0015	0,0002
93,568239	56,67133	18.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,024	0,0027	0,00062	0	0,0049	0,0043
93,56881	56,670655	18.10.2020	Nakhvalinskoye Village		S. Kuligin V. Kolpashchikov	0,024	0,0014	0,0007	0,0002	0,0017	0,0047







## RU-8546 Former pesticide warehouse, Nakhvalskoe Village of Sukhobuzimsky District



Figure 32. Map of the site RU-8544







Figure 33. General view



Figure 34. Sampling on the site







Figure 35. Testing dig



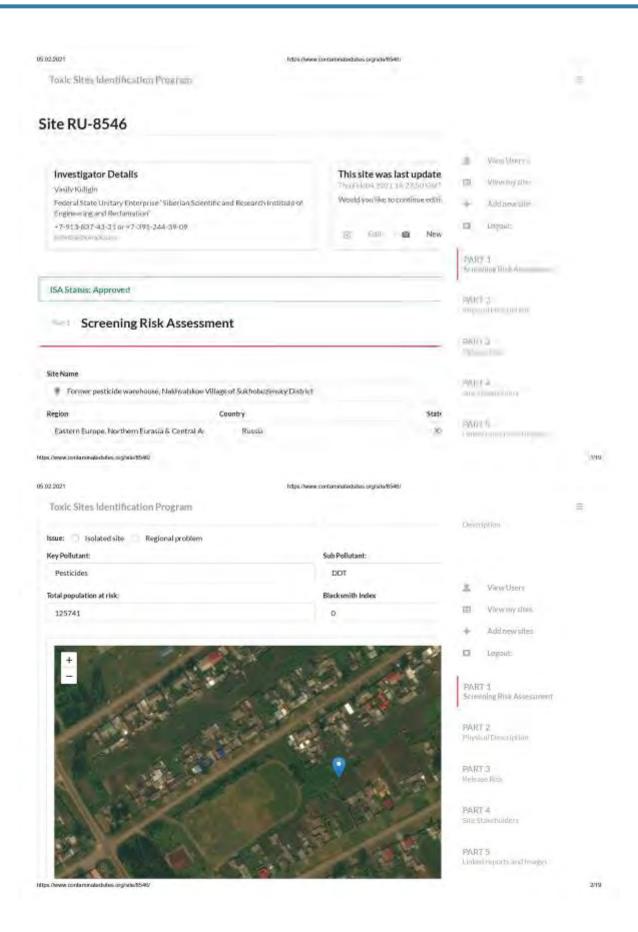
Figure 36. Sampling on the site





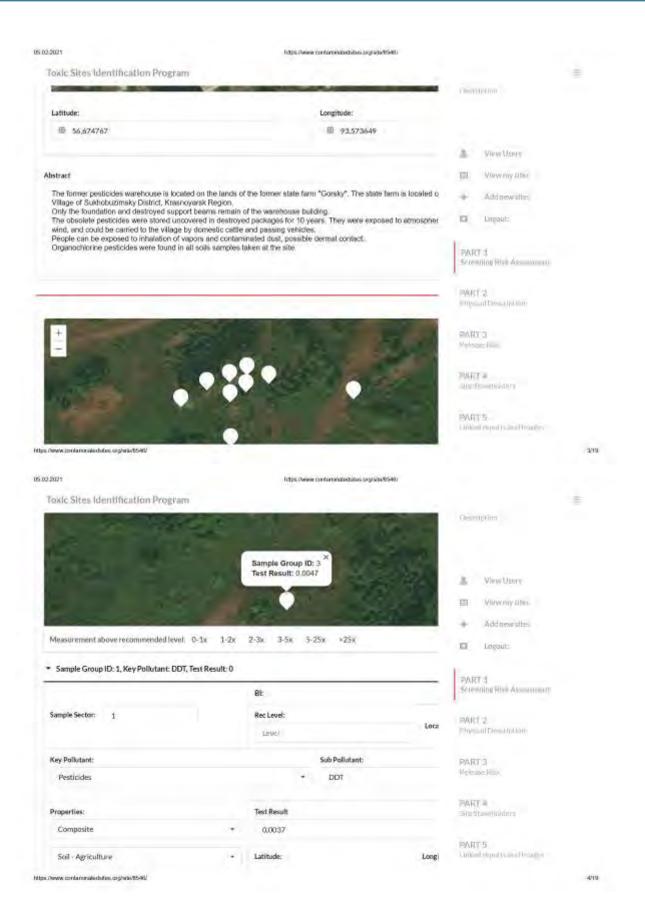






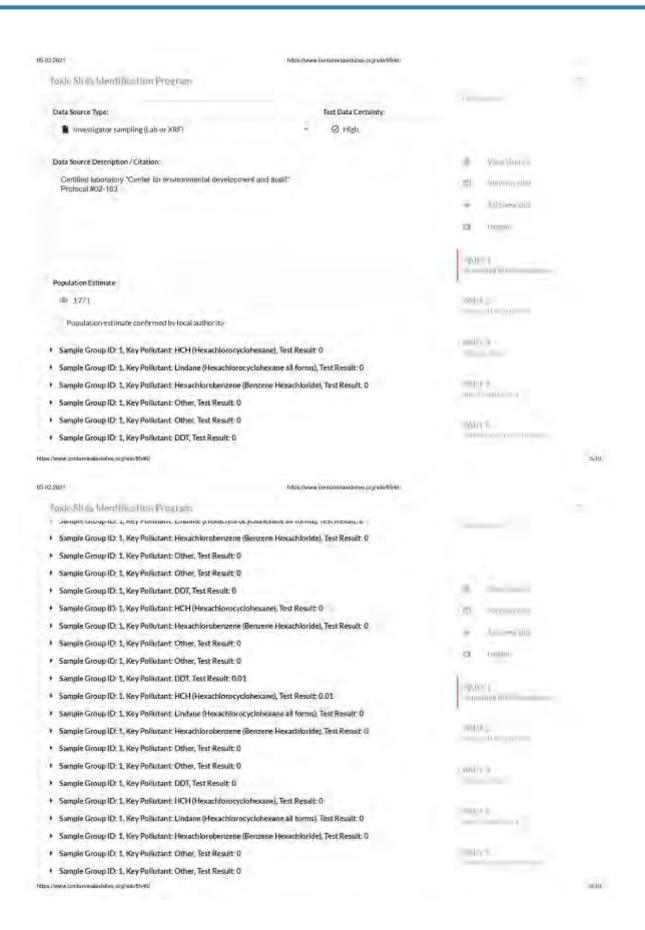
















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### **Example Laboratory Analysis Result for one soil sample:**

Общество с ограниченной ответственностью "Центр экологических разработок и аудита" Аккредитованная испытательная лаборатория

Юридический адрес: 660041, Красноярский край, г. Красноярск, пр. Свободный, 72а, пом. 115, тел/факс 291-34-44, E-mail: ceria@list.ru Адрес Испытательной лаборатории: 660061, Красноярский край, г. Красноярск, ул. Калинина, 84°Д°, пом. 10, тел.(391) 218-08-28, E-mail: cer.lab@list.ru Номер записи в Ресстре аккредитованных лиц № RA.RU.21AT40, дата внесения в Ресстр аккредитованных лиц 29.11.2016

# ПРОТОКОЛ ЛАБОРАТОРНЫХ ИССЛЕДОВАНИЙ № 02 -182 от 2 декабря 2020 г.

Наименование заявителя: Кулигин Василий Дмитриевич

Юридический адрес: г. Красноярск, ул. Красномосковская, д. 32

Наименование объекта (организации), где произведен отбор: совхоз "Горский"

Адрес: Красноярский край, Сухобузимский район, с. Нахвальское

Наименование образца:  $\underline{\text{почва}}$  Количество образца:  $\underline{350~\Gamma}$  Дата и время отбора:  $\underline{18.10.2020}$ 

Отбор произвел заказчик, акт отбора от 18.10.2020

НД на методы отбора: ГОСТ 17.4.4.02-2017 "Методы отбора и подготовки проб для химического, бактериологическо-

го, гельминтологического анализа"

Основание для отбора: договор № ИЛ ЦЭРиА/64-2020

При отборе присутствовал: \_-Условия доставки соблюдены

Доставлен в ИЛ 3.11.20 13:00

Дополнительные сведения: Хозяйственная база (разрушенная) бывшего совхоза "Горский". Территория бывшего склада химикатов. Проба 001, Н, глубина отбора 1 м.

Ответственность за отбор, доставку проб и предоставленную информацию несет заказчик. Результаты выданы на пред-

ставленный образец.

Нормативные документы, регламентирующие значения характеристик и показателей: \_\_\_

Код образца: <u>02 -182-20</u>

Наименование показателей, ед. измерения	Результаты испытаний	НД на методы испытаний
	Образец пост	упил 3.11.20 15:00
4,4-ДДТ, мг/кг	0,0030 ±0,0012	МУ 1766-77 Методические указания по определению остаточных количеств хлорсо- держащих пестицидов в почве методом газо-жидкостной хроматографии
альфа-ГХЦГ, мг/кг	0,0008 ±0,0004	МУ 1766-77 Методические указания по определению остаточных количеств хлорсо- держащих пестицидов в почве методом газо-жидкостной хроматографии
гамма-ГХЦГ (линдан), мг/кг	0,00022 ±0,00012	МУ 1766-77 Методические указания по определению остаточных количеств хлорсо- держащих пестицидов в почве методом газо-жидкостной хроматографии
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ДДД, мг/кг	0,00049 ±0,00022	МУ 1766-77 Методические указания по определению остаточных количеств хлорсо- держащих пестицидов в почве методом газо-жидкостной хроматографии
ДДЭ, мг/кг	0,00055 ±0,00025	МУ 1766-77 Методические указания по определению остаточных количеств хлорсо- держащих пестицидов в почве методом газо-жидкостной хроматографии

Протокол подготовил

Начальник ИЛ

Протоков составлен в 2 экземилярах

Л.Ф. Дмитриева

О.С. Оффан