



This Project is co-financed by
the European Union and the Republic of Turkey.

**Identification and Remediation of Contaminated Sites with Persistent Organic Pollutants
(POPs)**

TR2017 ESOP MI A3 03

2nd PROGRESS REPORT

Reporting Period: 09.10.2020 – 08.10.2021

This project is funded by the European Union and Republic of Turkey and implemented by the United Nations Development Programme. The beneficiary of the project is the Ministry of Environment and Urbanization. General Directorate of European Union and Foreign Relations is the Contracting Authority of this Project.

07 December 2021

United Nations Development Programme

Turkey



**REPUBLIC OF TURKEY
MINISTRY OF ENVIRONMENT,
URBANIZATION AND CLIMATE CHANGE**



*Environment and Climate Action
Sector Operational Programme*



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Glossary of Terms

AR	Activity Report
CA	Contribution Agreement
CCE	Climate Change and Environment
DEUAFR	Directorate of EU Affairs and Foreign Relations
DG	Directorate General
DoA	Description of Action
EC	European Commission
ESOP	Environmental Sectoral Operational Programme
EU	European Union
EUD	Delegation of the European Union to Turkey
EUR	Euro
GDEM	General Directorate for Environmental Management
GDFREA	General Directorate for Foreign Relations and EU Affairs
GEF	Global Environment Facility
IPA	Instrument for Pre-Accession
IR	Inception Report
KE	Key Expert
LGA	Legal Gap Analysis
MC	Minamata Convention
MoEUCC	Ministry of Environment, Urbanization and Climate Change
N/A	Not Applicable
NIPAC	National IPA Coordinator
NIP	National Implementation Plan
NPAA	National Programme for the Adoption of the EU Acquis
OCU	Operation Coordination Unit
PMU	Project Management Unit
PO	Project Office
POPS	Persistent Organic Pollutants
PSC	Project Steering Committee
SC	Stockholm Convention

SCM	Steering Committee Meetings
SDGs	Sustainable Development Goals
TAT	Technical Assistance Team
TNA	Training Needs Assessment
ToR	Terms of Reference
UN	United Nations
UNDP	United Nations Development Programme

1. DESCRIPTION

Action Title:	Identification and Remediation of Contaminated Sites with Persistent Organic Pollutants (POPs)
Contribution Agreement Number:	TR2017 ESOP MI A3 03
Total eligible cost:	2.030.000 EUR
Starting Date:	09.10.2019
End Date:	08.10.2022
Duration:	36 months
Contracting Authority: Project Manager: Address: Telephone: Fax: Contract Manager: e-mail: mailto:	Ministry of Environment, Urbanization and Climate Change Department of European Union Financial Assistance Mr. Ismail Raci BAYER Mustafa Kemal Mah. Eskişehir Devlet Yolu 9.km No: 278, Ankara, Turkey + 90 312 474 03 50-51 + 90 312 474 03 52-53 Meltem YILMAZ meltem.yilmaz@csb.gov.tr
Beneficiary Address: Fax: SROB: Telephone: e-mail: mailto: OCU Coordinator: Telephone: e-mail: mailto:	Ministry of Environment, Urbanisation and Climate Change General Directorate for Environmental Management, Chemicals Management Department Mustafa Kemal Mahallesi Eskişehir Devlet Yolu (Dumlupınar Bulvarı) 9. km. No: 278 Çankaya Ankara / Turkey +90 312 474 03 35 Nihat YAMAN – Head of Chemicals Management Dept. nihat.yaman@csb.gov.tr Menekşe KESKİ– Head of Prior Chemicals Unit +90 312 5863052 menekse.keski@csb.gov.tr
Organization: Project Director: Address: Telephone: e-mail: Project office address: Project Manager: Telephone: e-mail: mailto:	United Nations Development Programme (UNDP) Turkey Country Office Nuri Özbağdatlı – Climate Change and Environment Portfolio Manager UNDP, Yıldız Kule, Yukarı Dikmen Mahallesi, Turan Güneş Bulvarı, No:106, 06550, Çankaya, Ankara/Turkey +90 312 454 11 00 nuri.ozbagdatli@undp.org UNDP, Yıldız Kule 16 th Floor, Yukarı Dikmen Mahallesi, Turan Güneş Bulvarı, No:106, 06550, Çankaya, Ankara/Turkey Meral Mungan Arda +90 312 454 11 84 meral.mungan-arda@undp.org
Name of the Report:	Second Progress Report
Reporting period:	09.10.2020 – 08.10.2021
Report elaborated by:	Meral Mungan Arda, Project Manager

Report reviewed by:	Nuri Özbağdatlı, Climate Change and Environment Portfolio Manager
Progress report submitted on:	07.12.2021
EU, TR, and UNDP financing as a percentage of total budget of the Action:	Considering the total budget of the action as 2.030.000 EUR: EU: 83,74%; TR: 14,78%; UNDP:1,48%
Objectives of the action:	<p><i>Overall objective:</i> The overall objective is to improve environmental protection and the quality of life of citizens by protecting human health and environment from adverse effects of Persistent Organic Pollutants (POPs) and other hazardous substances especially in contaminated sites through enhancing the implementation capacity of EU POPs Regulation and Soil Contamination Strategy.</p> <p><i>Specific objective:</i> The purpose of the project is to enhance Turkey's capacity on implementation of EU POPs Regulation through supporting central and local authorities on identification and remediation of contaminated sites with POPs.</p>
Target groups:	<p>The following target groups can be considered under this action:</p> <ul style="list-style-type: none"> • The relevant staff of MoEUCC in central and provincial level from the following departments: <ul style="list-style-type: none"> ○ Department of Chemicals Management ○ Provincial directorates • Line ministries <ul style="list-style-type: none"> ○ Ministry of Agriculture and Forestry ○ Ministry of Industry and Technology ○ Ministry of Health • Industrial Associations and Environmental NGOs (i.e., İstanbul Minerals and Metals Exporters Association (IMMIB), Chemicals Industry Associations, TEMA, etc.) Universities and Research Centers (METU, Kocaeli University, TÜBİTAK MRC, etc.) • Industry especially potential target sectors that may have contaminated sites • Public especially farmers, residents in highly industrialized areas <p>In addition to target groups the following departments of MoEUCC will be the stakeholders:</p> <ul style="list-style-type: none"> • Department of Water and Soil Management • Directorate General of Geographic Information Systems <p>However, in addition to this, works component will have a specific targets groups as it will be implemented locally:</p> <ul style="list-style-type: none"> • Provincial directorate of Environment and Urbanization • Other provincial directorates of line ministries • Local municipality <p>Local people living around the selected pilot contaminated site</p>
Final beneficiaries:	The final beneficiaries of the project are local stakeholders, and vulnerable communities and citizens.
Estimated results:	<p>Result 1. Technical and institutional capacity for management of POPs contaminated sites has been strengthened.</p> <p>Result 2. Contaminated sites with POPs have been identified and classified</p> <p>Result 3. Central authority's institutional experience for remediation of POPs contaminated sites have been increased.</p>

2. ASSESSMENT OF IMPLEMENTATION OF ACTIVITIES OF THE ACTION

2.1 Executive Summary

UNDP (United Nations Development Programme) is the UN's global development network and contributes to one of the core areas; Climate Change and Environment (CCE). UNDP Turkey in line with the UNDP Cooperation Strategy 2016-2020, changing needs of Turkey and Tenth National Development Plan, targets developmental challenges and priorities of the country.

One of the general objectives of the ESOP that is environmental protection through increasing the capacity of the MoEUCC for protection of soils from POPs and other dangerous pollutants. The project also fits the respective output of the ESOP which is the "Legislative reform and capacity building advanced in the areas of climate action, air quality, civil protection, marine environment, horizontal legislation and nature protection" since it will contribute to capacity building for implementation of POPs Regulation and Point Source Contaminated Sites Legislation. Multi-annual Action Programme for Environment and Climate Action 2014-2018 and National Action Plan for EU Accession Phase-II (June 2015-June 2019) clearly state that chemicals sector is one of the major sectors for putting EU Acquis into practice in the country.

Turkey has signed the Stockholm Convention on Persistent Organic Pollutants in 2004 and ratified in 2009. In order to fulfil its obligations on the Convention, Turkey prepared its National Implementation Plan (NIP) that includes the inventory of the country and the necessary action plans for implementation of the convention. The inventory of POPs in the country and action plans in the NIP has been reviewed with the GEF support in 2013 since there has been addition of 9 new POPs in the annexes of the convention in between 2004-2011. Turkey has implemented the EU Project on Implementation of POPs Regulation in Turkey which is the implementing Regulation of EU for the Stockholm Convention and at the moment preparing the POPs By-law for publication that is the output of the project. The prepared By-law was published at the Official Gazette on 14 November 2018. The EU Project supports Turkey to implement the fundamental legislation on POPs that is providing necessary framework measures and limits for POPs management however it does not consist of specific provisions for implementation of the POPs Regulation such as management of POPs stockpiles, wastes, and contaminated sites.

Under these circumstances, Turkey will start implementing the obligations of the Stockholm Convention (SC) and related EU POPs Regulation (EC) No 850/2004, which is the implementing regulation of EU for SC, in the upcoming years rigorously and will need technical assistance for effective implementation of it. As it is indicated in the NIP, one of the priority areas of the country on implementation of the Convention and the POPs Regulation is contaminated sites issue since the country is in a fast-growing period and has intensive usage of such chemicals in various industrial sectors which may increase the uncontrolled contamination of soil with these chemicals. The POPs Regulation is covering the life-cycle management of POPs such as banning or severely restricting production/use/import/export of POPs chemicals, environmentally sound management of POPs stockpiles, wastes and contaminated sites. Within the scope of the regulation management of contaminated sites with POPs is the major deficiency in terms of regulatory and enforcement point of view.

For this reason, Turkey has initiated its Soil Contamination Control and Point Source Contaminated Sites Legislation that is the sister legislation for fulfilling the contaminated sites obligations of EU POPs Regulation with lack of experience and technical capacity. In order to fill the technical and practical

deficiencies of central and local authorities in the country such capacity building project has been proposed for this Sector Operation Program.

The Action at hand, namely, "Identification and Remediation of Contaminated Sites with POPs" aims to respond to the above referred needs in the field of chemicals and soil pollution and addressing the training capacity needs of Ministry of Environment and Urbanization to increase its enforcement capacity at central and local level.

In this respect the Project is composed of 2 components:

Component A – Technical Assistance for strengthening technical and institutional capacity for management of POPs contaminated sites and identification and classification of contaminated sites with POPs: This component aims to improve the capacity of all relevant stakeholders at central and local level so that (i) there is a strengthened technical and institutional capacity for management of POPs contaminated sites, and (ii) POPs contaminated sites were properly identified and classified.

Component B – Works for increasing the institutional experience for remediation of POPs contaminated sites: This component aims to build a "capacity" for implementation of remediation activities in Turkey in line with EU regulations and standards.

The Part A related to Technical Assistance is executed by UNDP through the signature of the Contribution Agreement between UNDP and the Ministry of Environment, Urbanization and Climate Change and is referred to as "Project" throughout the present Description of the Action. Accordingly, UNDP is responsible and accountable for implementation of the Part A only.

The Part B related to Works Component is executed through the Ministry of Environment, Urbanization and Climate Change. Accordingly, accountability and responsibility of the Part B, which involves tendering and contracting a works company, vests with the Ministry of Environment, Urbanization and Climate Change.

The Project commenced on 9 October 2019, following the signature of the Contribution Agreement Contract TR2017 ESOP MI A3 03. This progress report covers the second year of the contract period between (9 October 2020 – 8 October 2021).

The report mainly outlines the progress in project activities currently being implemented. While the details of each action taken for the project implementation are given under section 2 of this report, the brief overview is hereunder:

- The details of the progress in the recruitment process of the Technical Assistance Team, Key Experts and Individual Consultants.
- Information on the meetings and events consisting of the Operation Coordination Unit meetings, technical meetings and Steering Committee meetings, organized within the second Progress Report period.
- The information on the implementation of the activities within the second Progress Report period (9 October 2020 – 8 October 2021).
- An updated table for the risk assessment and mitigation measures including the COVID-19 pandemic matters.

- The details regarding the project management activities and project implementation elements such as methodology, logical framework, work plan, and budget.
- The expenses made from the project budget in the second reporting period.

2.2. Progress in Activities and Achievement of Results

Inception Phase:

The inception period commenced on 09 October 2019, following the signature of Contribution Agreement Contract TR2017 ESOP MI A3 03.

All details with regards to the inception phase was already provided in the first Progress Report. The inception phase was extended until 15.01.2020 through Notification No: 1.

Implementation Phase:

Implementation period is between 15.01.2020 and 08.10.2022. In Section 2.2., details with regards to implementation of activities are presented.

The report mainly outlines the progress in project activities currently being implemented.

Part A – Technical Assistance for strengthening technical and institutional capacity for management of POPs contaminated sites and identification and classification of contaminated sites with POPs: This component aims to improve the capacity of all relevant stakeholders at central and local level so that (i) there is a strengthened technical and institutional capacity for management of POPs contaminated sites, and (ii) POPs contaminated sites were properly identified and classified.

2.3. Recruitment of Technical Assistance Team

The Technical Assistance Team is started to be established during the inception phase and recruitment of the Project Manager, Project Associate and Project Assistant/Interpreter was completed in the first Progress Report period. Following the resignation of the first Project Associate as of August 2021, a new Project Associate was recruited, and she assumed her duties as of 01.09.2021. The ToR of this position was already submitted as annex of the 4th Activity Report.

Procurement processes for Key Experts were postponed first because of the pandemic, and then the ambiguity in identification of contaminated sites. Accordingly, it was decided that recruitment of key experts to be postponed until the unclarity of contaminated sites to be rehabilitated is resolved through inter-institutional meetings at government level. Minor revisions were made to ToRs of these positions, specifically to the minimum requirements of the expected professional and specific experiences of the candidates. Key Expert 1 position as Chief Technical Advisor was advertised between the dates 08.09.2020 - 02.10.2020 and after the evaluation no candidates could be shortlisted within the limits of the project budget in the first round of the advertisement. Then, seven rounds of evaluation processes were run from UNDP's HR roster and none of the candidates were available. Currently, an eligible expert is sent proposal for enrolment for UNDP HR roster; however, he could not receive permission to sign an individual contract on his name from his own company. Currently, the procurement process for direct recruitment with this expert through his company (Reimbursable Loan Agreement contractual modality of UNDP) continues.

Regarding Contaminated Sites Management Expert (KE-3) position, the contract was signed with Mr. Robert Raschman on 09.07.2021 and Software Developer (KE-2), Mustafa Aral on 27.09.2021, where there has been a notification on modification of the project from software development to health risk assessment software development. ToRs of these positions are submitted as Annex-1 of this report.

During the second Progress Report period, International Training Expert, Ivan Holoubek was contracted on 17.12.2020 to deliver trainings together with the national consultants. In addition to this, Local Junior Technical Consultant on POPs, Zöhre Kurt was contracted on 28.05.2021 to support the activities such as CSIS development, regulation studies and persistent toxic substances report.

Further details on the team of consultants who were contracted so far are presented in Table 1.

Table 1: Details on the individual consultants' contracts

Name	Contract Type	Contract Commencement Date	Maximum Working Days	Spent Working Days (in the 2nd PR)
Prof. Dr. İpek İmamoğlu	Individual Contract	17.08.2020	100	45
Prof. Dr. Ahmet Karagündüz	Individual Contract	24.06.2020	100	22
Prof. Dr. Elçin Kentel	Individual Contract	28.09.2020	70	52
Yahya Akdağ	Individual Contract	22.05.2020	270	74
Cemil Ağırman	Individual Contract	10.07.2020	20	10
Zöhre Kurt	Reimbursable Loan Agreement (RLA)	28.05.2021	120	11
Robert Raschman	Personnel Services Agreement	09.07.2021	100	5
Prof. Dr. Ivan Holoubek	Individual Contract	17.12.2020	50	18
Mustafa Aral	Reimbursable Loan Agreement (RLA)	27.09.2021	100	0

- **Prof. Dr. İpek İmamoğlu, Contaminated Sites Consultant**

In line with the project components, the duties of Prof. Dr. İpek İmamoğlu is providing support to the Project's components and its related activities, providing technical support in the field of training on contaminated sites, POPs, soil pollution and assisting the project management unit in prioritization of contaminated sites, rehabilitation pilot work, site selection and other relevant activities, as necessary.

- **Prof. Dr. Ahmet Karagündüz, Soil Pollution Consultant**

Prof. Dr. Ahmet Karagündüz is providing consultancy on technical support in order to carry out legal gap analysis, research and analysis of the current legislation with regards to contaminated sites (Activity 1.2 Legal Gap Assessment (LGA)/Guidance Documents/Publications Preparation and Update), on preparation of the draft new regulation and relevant supporting documentation in line with the opinion of the Ministry of Environment and Urbanisation, and on the preparation of

Technical Specification of contaminated sites rehabilitation (including operational plan, monitoring plan of the rehabilitation of selected contaminated sites within the scope of project components).

- **Prof. Dr. Elçin Kentel, Risk Assessment Consultant**

The duties of Prof. Dr. Elçin Kentel is to provide technical inputs for preparation of the training materials on contaminated sites with POPs especially on risk assessment analysis, providing different trainings for different target groups in alignment with the training needs assessment, and support to prioritization methodology for contaminated sites with POPs/Persistent Toxic Substances, selection of the pilot contaminates sites.

- **Yahya Akdağ, Software Development Expert**

In line with the project components, the duties of Yahya Akdağ is providing support for upgrading the current Contaminated Sites Registration System (CSRS) in order to facilitate the implementation of the Point-source Contaminated Site Legislation under the Component 1 and Component 2 of the Project.

- **Cemil Ağırman, FIDIC/PRAG Consultant**

The assignment of Cemil Ağırman is providing support in preparation of technical document of Works Component (Component 3) in line with FIDIC Contracts and PRAG Requirements, within the scope of the project components.

- **Prof. Dr. Ivan Holoubek, International Training Expert**

Prof. Dr. Ivan Holoubek shall provide technical support on training activities, developing training materials for different target groups in alignment with the training needs assessment and participating as trainer to these activities. He shall also be responsible for supporting the development of a new guidance targeting POPs contaminated sites, preparing Legal Gap Analysis, and updating technical guidelines related to contaminated sites assessment, remediation, monitoring, and risk assessment.

- **Assistant Prof. Dr. Zöhre Kurt, Local Junior Technical Consultant on POPs**

Prof. Dr. Zöhre Kurt shall provide technical inputs on POPs for the achievement of results under Component 1 and Component 2 of the project. She is expected to provide technical inputs for Contaminated Sites Information System on CAS numbers and other relevant information needed for the system update. She will be working in close cooperation with Software Development Expert who will work on CSIS update and the CTA by providing technical inputs for POPs related issues and preparation of technical documents and guidelines within the scope of the project.

- **Robert Raschman, KE-3: Contaminated Sites Management Expert**

Robert Raschman shall provide technical support and overview for the technical documents of Works Component as well as the capacity building related activities of the project. Within the scope of his assignments, he will involve in the revision process of the Regulation on Contaminated Sites and prioritization of POPs/persistent toxic substances contaminated sites for remediation. In addition, he will support the organization of hybrid training activities, including the preparation of

training programmes and training materials to enhance the capacity of the MoEUCC's central and provincial staff about the health risk assessment and alternative technologies for soil remediation.

- **Mustafa Aral, KE-2: Software Development Expert**

The project identified a need of a software programme in Turkish language for health risk assessment as a result of exposure to the POPs and other chemicals, so that MoEUCC staff could check the risk assessments conducted by the site owners as per the contaminated sites regulation. Mustafa Aral shall develop a risk assessment software in Turkish language with a user manual and information document for the sustainability of the programme. Once the programme is developed, he shall prepare a report on recommendations for the maintenance and deliver a training on Health Risk Assessment Software Programme either online or physical means for an audience between 100-200 people.

There will be two additional Junior Consultant positions planned for the rest of the project duration:

- **Consultant on Visibility Activities:**

The consultant is expected to design a corporate identity for the Project and to prepare a communication plan to implement the Project Communication Strategy. Besides that, he/she shall design a communication plan to raise awareness on POPs and other hazardous substances and contaminated sites with POPs, enhancing capacity of EU POPs Regulation and Soil Contamination Strategy, National POPs Regulation, and National Regulation on Control of Soil Pollution and Sites Contaminated by Point Sources. The assignment will cover improvement and management of the project website, producing written content, and developing visibility activities, all highlighting the overall objective and expected results of the Project and key messages to the target audience and video shooting, when necessary, in the field to ensure the Project short videos to complete in a high quality and in line with the Project targets. Recruitment process for Communication, Visibility and Outreach Consultant is ongoing. ToR advertised on October 2021 in order him/her to contribute to the communication activities of the project. Please see the advertised ToR in the Annex-2.

- **Junior Consultant on Support for Project Trainings/Meetings:**

Junior Consultant on Support for Project Trainings/Meetings will support the project to ensure smooth and timely project implementation, provide administrative and logistical support to the organization of project meetings and trainings in a standardized manner.

The draft ToRs of the above-mentioned Communication, Visibility and Outreach Consultant and the Junior Consultant on Support for Project Trainings/Meetings) were submitted as annex of the 4th Activity Report.

2.4. Meetings and Events

Several meetings were held within the second Progress Report period. The presentations, minutes, and participants list of the meetings were attached as annex to the 3rd and 4th Activity Reports. Please kindly refer to the 4th Activity Report, which was submitted on 20 September 2021 to Contracting Authority, Beneficiary Institution and EUD.

- **Operation Coordination Unit (OCU) Meetings**

A total of ten Operation Coordination Unit meetings were held during the second progress report period. The dates and number of participants of these OCU meetings are listed in Table 2.

Table 2: Project's Operation Coordination Unit Meetings

Name of the Meeting	Date of the Meeting	Number of Participants
10 th OCU Meeting	27.10.2020	11 (w:10/m:1)
11 th OCU Meeting	11.11.2020	11 (w:9/m:2)
12 th OCU Meeting	09.12.2020	12 (w:10/m:2)
13 th OCU Meeting	13.01.2021	15 (w:12/m:3)
14 th OCU Meeting	22.02.2021	13 (w:11/m:2)
15 th OCU Meeting	29.03.2021	11 (w:9/m:2)
16 th OCU Meeting	20.05.2021	11 (w:7/m:4)
17 th OCU Meeting	30.06.2021	13 (w:9/m:4)
18 th OCU Meeting	25.08.2021	11 (w:7/m:4)
19 th OCU Meeting	08.09.2021	7 (w:5/m:2)

w: women; m: men

The presentation, minutes, and participants list of the OCU meetings were submitted in as annexes of the 3rd and 4th Activity Reports.

- **Project Steering Committee (PSC) Meetings**

The third and fourth PSC meetings were held during the second progress report period. Details of these meetings including minutes and presentations were already submitted in the Activity Reports.

Table 3: Project's Steering Committee Meetings

Name of the Meeting	Date of the Meeting	Number of Participants	Major Decisions
PSC Meeting No: 3	09.04.2021	15 (w:10/m:5)	1.After the site analysis results are received, a meeting will be held with the participation of the Steering Committee members. 2.The research on the risk assessment software in terms of the cost and compliance with the Regulation will be submitted at the end of April.
PSC Meeting No: 4	07.10.2021	20 (w:12/m:8)	1.Technical Specification documents will be finalized in line with the comments of the IPA Unit. 2.The evaluation of the Chief Technical Advisor position will be completed through UNDP procurement rules, via the company of the selected candidate. If this cannot be realized in a short period, then,

			lack of CTA will be compensated by other experts. 4.The draft Second Progress Report will be submitted to all parties for their review.
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w: women; m: men

2.5. Monitoring and Reporting

- **Third Activity Report**

The draft of the third Activity Report was submitted for review of the Contracting Authority, End Beneficiary and EUD on 24 March 2021. Following the revisions, the final report was officially submitted through the cover letter of UNDP dated 28.05.2021. The timeline of phases regarding the submission of the 3rd AR is presented the Table 4 below:

Table 4: Timeline of AR-3 Submission

Phase	Date				
Submission of draft AR for review (ENG)	24.03.2021				
Revisions dates of draft AR (ENG)	<table border="1" style="width: 100%;"> <tr> <td>Report Rev. 1 Date:</td> <td>24.03.2021</td> </tr> <tr> <td>Report Rev. 2 Date:</td> <td>29.04.2021</td> </tr> </table>	Report Rev. 1 Date:	24.03.2021	Report Rev. 2 Date:	29.04.2021
Report Rev. 1 Date:	24.03.2021				
Report Rev. 2 Date:	29.04.2021				
Submission of AR for approval (ENG, TR)	29.04.2021				
Approval of AR (ENG, TR)	29.04.2021				
Official Submission of hard copy AR (ENG, TR)	28.05.2021				

- **Fourth Activity Report**

The draft of the Fourth Activity Report was submitted for the review of the Contracting Authority, End Beneficiary and EUD on 20 September 2021.

Table 5: Timeline of AR-2 Submission

Phase	Date								
Submission of draft AR for review (ENG)	20.09.2021								
Revisions dates of draft AR (ENG)	<table border="1" style="width: 100%;"> <tr> <td>Report Rev. 1 Date:</td> <td>N/A</td> </tr> <tr> <td>Report Rev. 2 Date:</td> <td></td> </tr> <tr> <td>Report Rev. 3 Date:</td> <td></td> </tr> <tr> <td>Report Rev. 4 Date:</td> <td></td> </tr> </table>	Report Rev. 1 Date:	N/A	Report Rev. 2 Date:		Report Rev. 3 Date:		Report Rev. 4 Date:	
Report Rev. 1 Date:	N/A								
Report Rev. 2 Date:									
Report Rev. 3 Date:									
Report Rev. 4 Date:									

Submission of AR for approval (ENG, TR)	N/A
Approval of AR (ENG, TR)	N/A
Official Submission of hard copy AR (ENG, TR)	N/A

- **Monitoring Meeting by CA**

An online videoconference meeting was held with the Monitoring and Evaluation Unit of the Contracting Authority on 16 June 2021. The minutes of the meeting, findings and management responses to this online monitoring visit are presented as Annex-3 of this report.

- **Monitoring Meeting by ROM mission:**

In addition to that, the ROM mission was carried out on 14.06.2021, the ROM report was submitted as annex to the 4th Activity Report. Moreover, as per ROM report suggestions, the log frame of the Project is updated by TAT, together with the M&E Analysis and M&E Advisor of UNDP Turkey, in consultation with the Beneficiary Institution to reflect the Project outputs and outcomes better.

2.6. Project Components

The progress in the activities under each component within the first progress reporting period (9 October 2020 – 8 October 2021) is presented as follows in narrative format. As agreed with the Beneficiary and the Contracting Authority, the DoA was revised and some additional trainings were included to establish a full-fledged hybrid training activities as of 21.09.2021 with the Notification No.8, The Notification was already submitted as annex of the 4th Activity Report.

Activity 1.1: Trainings for staff that will be working on POPs/contaminated sites management from different target groups

There have been certain modifications in the training activities within the scope of Activity 1.1. At first, the trainings could not be held physically due to COVID-19 measures and PMU agreed to hold online trainings at the 8th OCU meeting to prevent possible delays in the project implementation. Accordingly, five trainings were held online with the representatives from central and provincial staff of the MoEUCC as well as the other line ministries. During these trainings international and national experts presented various case studies and opened discussion platforms where provincial staff who mainly engaged in site works, directly shared their experiences and challenges with the trainers and the central staff.

Although some of these trainings targeted only 30 people, the following online training series reached more than 100 people during pandemic and continuous learning process was encouraged with the attendance of the related technical staff for each training. For further information, please see the 4th Activity Report.

Activity 1.1.1. Central level and Provincial level staff training to be held online

The online trainings defined under this activity was realized between December 2020 and April 2021 due to pandemic measures. Please see the 3rd and 4th Activity Reports for further details.

Activity 1.1.1.1. Training on Determination of Soil Pollution Capacity for Assessment

Completed. Information with regards to this training was provided in 3rd Activity Report.

Activity 1.1.1.2. Training on Determination of the Cleaning Targets

Completed. Information with regards to this training was provided in 3rd Activity Report.

Activity 1.1.1.3. Training on Contaminated Sites Monitoring

Completed. Information with regards to this training was provided in 4th Activity Report.

Activity 1.1.1.4. Detection and Assessment of Pollution Load to the Soil

Completed. Information with regards to this training was provided in 3rd Activity Report.

Activity 1.1.2 Central level and Provincial level staff training to be held through hybrid means

Technical Assistance Team has been programmatically and operationally ensuring project implementation with at most attention during the outbreak to carry out the project activities and minimize the possible delays in the original workplan. Whilst these trainings were evaluated successfully, there emerged a need for further trainings, which would be provided through hybrid methodology (both physical and online), in order to provide more detailed information in some complex areas.

Some outbreak measures have been lifted with a new normalization process, lower number of cases and vaccination opportunities. Therefore, it has been decided that trainings on the health risk assessment and alternative remediation technologies shall be organized at the same time for both central and provincial staff of the MoEUCC via hybrid means, through enabling a sequential training series, to allow more content to be provided at the same time. These trainings are additionally planned to use savings in the project budget through Notification No: 8.

Activity 1.1.2.1. Training on Health Risk Assessment

In progress during the period of Progress Report No: 2. The training will be held on two sessions and 60 staff from the MoEUCC will attend for each training and overall 120 people are expected to be trained through physical means for 2.5 days. The number of participants may increase depending on online participation. The first session is planned to be held on 11-12-13 October 2021 in İzmir province and the second session is planned to be held on 1-2-3 November 2021 in Antalya province.

Activity 1.1.2.2. Training on Alternative Remediation Technologies for Contaminated Sites with POPs

In progress during the period of Progress Report No: 2. The training will be held on two sessions and 60 staff from the MoEUCC will attend for each training and overall 120 people are expected to be trained through physical means for 2.5 days. The number of participants may increase depending on online participation. The first session is planned to be held on 22-23-24 November 2021 and the second session is planned to be held on 13-14-15 December 2021, in Antalya province.

Activity 1.1.2.3. Workshops on Recommendation Draft Legislation on Contaminated Sites Legislation and POPs By-Law

Five 2-day workshops are projected to be held separately for central staff of the MoEUCC to further investigate the revisions/updates in the legislation. This is needed for a better focus on the revision of very intensive regulation with several technical guidelines and to come up with solid recommendations for legislation. These workshops are planned to be organized as of January 2022.

Activity 1.1.2.4. Contaminated Sites Information System Training

Completed. Information with regards to this training was provided in 3rd Activity Report.

Activity 1.1.2.5. Legislation Training

Information with regards to this training was provided in 3rd Activity Report. There has been further decision on postponing this training to a later date in 2022, since it would be more meaningful to have this training after the legislation is revisited and revision suggestions are made.

Activity 1.1.3. Training for Companies Certified by MoEUCC with Proficiency on Contaminated Site Remediation

Postponed to 2022. After the 2nd Progress Report period, the TAT will mostly be focused on revisiting regulations and coming up with suggestions for revisions in the regulations for contaminated sites and POPs. Thus, it would be better to conduct this training when these revision suggestions start to shape.

Activity 1.1.4. Sectoral Trainings for Potential POPs Contaminated Site Owners Selected from Contaminated Sites Registration System

This activity is also postponed in order to have CSIS updates in place and legislation revisions are completed until 2022.

Activity 1.2. Legal Gap Assessment (LGA)/Guidance Documents/Publications Preparation and Update

Postponed to 2022. Information with regards to this activity was provided in 3rd and 4th Activity Reports. Regulation related activities will be intense in the upcoming period after Progress Report No: 2. Activity 1.2.1, Activity 1.2.2., Activity 1.2.3 are all relevant with this regulation reviews, suggestions for revisions, etc.

Activity 1.2.1. Conducting LGA for Determination of Deficiencies of the Existing By-Laws on POPs and Contaminated Sites Management.

Postponed to 2022. Please refer to Activity 1.2. and 4th Activity Report.

Activity 1.2.1.1. Assessment of Legal Instruments and Preparing Legal Gap Analysis

Postponed to 2022. Please refer to Activity 1.2. and 4th Activity Report.

Activity 1.2.1.2. Recommendation Draft Legislation on Contaminated Sites Legislation and POPs By-Law

Postponed to 2022. Please refer to Activity 1.2. and 4th Activity Report.

Activity 1.2.2. Preparation of Dissemination Materials

The outcomes of the project will be disseminated in 2022, when all results are available to be shared with public.

Activity 1.2.3. Current Guidelines Elaborating of Documents

This activity is postponed to 2022.

Activity 1.2.3.1. Elaborating on Soil Pollution of the Technical Guide

This activity is postponed to 2022.

Activity 1.2.3.2. Updating of the Report Forms Provided in the Annexes (3, 5, 6 and 7) to Soil Contamination By-law

This activity is planned for 2022.

Activity 1.2.3.3. Analysis of Relevant International Guidance Documents that are Specific to POPs Contaminated Sites and Preparation of a Technical Guidance Document on POPs

This activity is delayed but planned for 2021. This task will be initiated by KE-3 in November 2021 through conducting necessary analysis and research on the necessary sources.

Activity 1.3. Study visits

This activity is planned for Spring 2022. Please refer the 4th Activity Report.

Activity 1.3.1. Visiting an EU country with Contaminated Sites with Different Pollutants and Soil Remediation Techniques

This activity is planned for Spring 2022. Please refer the 4th Activity Report.

Activity 1.3.2. A Study Visit to Soil Unit of European Environment Agency or Joint Research Center in ISPRA (Institute for Environment and Sustainability).

This activity is planned for 2022.

Activity 1.4. Establishment of Helpdesk Navigator Software Programme

Completed. Please refer the 4th Activity Report. The helpdesk is to be undergoing live tests within the servers of the MoEUCC.

Activity 1.4.1. Organization of a one-day Workshop

Work packages which were related to software development have been smoothly implemented. Contaminated Sites Information System and Helpdesk are closely linked work packages. Software Developer drafted the Analysis Document for Helpdesk. This analysis document was prepared in consultation with Beneficiary Institution and MoEUCC IT Department. Several meetings were conducted with these departments and the Helpdesk Analysis document was shared with these departments.

It was necessary that the feedback received from MoEUCC central and provincial level staff, other relevant governmental institutions, and accredited companies since they would be the ultimate users of the Helpdesk Programme.

In total, 5 separate meetings between TAT, MoEUCC IT Department and Beneficiary Institution to discuss the details of Helpdesk Software Programme are held. The details of these meetings are illustrated as annexes of the 2nd Activity Report. IT Department's guidance and oversight was always received throughout the process.

Workshop Report and its annexes, presentations, which was shared with the Technical Team (TAT, CA, Beneficiary Institution) on 25.09.2020, were also submitted as annex of the 2nd Activity Report.

Activity 1.4.2. Establishment of a Helpdesk Navigator Program

Completed. Please refer the 4th Activity Report. The helpdesk is to be undergoing live tests within the servers of the MoEUCC. Any bugs and issues arising with respect to the software will be fixed during the live test period.

Activity 1.4.3. Putting the Internet Website of the Helpdesk into Operation

This activity is planned for 2022.

Activity 1.5. Health Risk Assessment Software Programme

This is added as a new activity in the project. Health risk assessment is a very important part of contaminated sites analysis and rehabilitation process. However, it was noted during the health risk assessment training activities that there were no tools for the MOEUCC to use for this purpose. Thus, during the 16th Operation Coordination Unit Meeting (Decision Making Meeting), it was decided that Key Expert 2 would be working on developing a health risk assessment software. The minutes of OCU meeting was already submitted in the 4th Activity Report. For this purpose, Risk Assessment Expert prepared a report to identify the possibilities for the software. The analysis report is attached as Annex-4. Accordingly, it was found eligible that there were several software tools in English that would provide health risk analysis; however, provincial level MoEUCC staff would need a Turkish software. Thus, the Software Development Expert will prepare a health risk assessment software in Turkish, that is tailored for the contaminated sites regulation.

Result 2. Contaminated sites with POPs have been identified and classified.**Activity 2.1. Update of CSIS Software**

In Progress as a whole work package. Please refer the 4th Activity Report.

Activity 2.1.1. Analysis of Current Registration System and Inventory System and underlying Infrastructure and Utilization

Completed. Information with regards to this activity was provided in the 4th Activity Report.

Activity 2.1.2. Update of CSIS Software

In Progress. Software Developer Expert submitted twelve Progress Reports within the scope of his works so far. These reports could be found as annex to the 4th Activity Report.

Activity 2.1.3. Organization of a Training about the Fully Developed CSIS Software

This activity is planned for second half of 2022.

Activity 2.2. Identification and Classification of POPs Contaminated Sites in Turkey

In Progress. There were internal PMU meetings in terms of identification of a methodology for identification and classification of POPs contaminated sites in Turkey, in general to serve for the purpose of deciding on which contaminated site to rehabilitate when the financial resources are limited.

This methodology was already implemented on the existing private sector contaminated sites (with POPs); since there are no government/orphan sites in CSIS. The inventory of the MoEUCC does not have any governmental sites or orphan sites, which are contaminated with POPs. Correspondences were made with governmental institutions to identify these sites; however governmental institutions did not have such sites in their inventories.

Private sector sites that used POPs in their processes were listed, none of them were contaminated sites, but the CSIS lists them as suspected since they declare the use of POPs in their industrial processes. Even though these sites were not contaminated sites and these were private sector sites, still a methodology was prepared in order to identify, classify, and prioritize them considering parameters like the pollutant type, pollutant load, distance to residential areas, aquatic resources, etc. Two private sector sites were highlighted as a result of this prioritization. However, it was noted that these sites were not contaminated (no accidents, no spills in CSIS) and they were not government sites. It was decided that project funds would better be invested in government/orphan sites which are contaminated with POPs (7th OCU Meeting) and TAT started discussion with governmental institutions to identify potential contaminated sites with POPs, together with the technical departments of the Ministry. Afterwards, series of meetings and discussions were made, even though determination of a site was beyond the responsibility of the TAT, whilst CSIS did not contain any government/orphan site which was contaminated with POPs, this was so critical for the sake of works component and the TA's supervision related activities.

Overall, certain potential sites were pointed as a result of these meetings and several site visits and site analysis were realized to determine the contaminated sites with POPs, which belongs to the government

and which could be rehabilitated within the scope of this project. The details of these visits were elaborated in the 3rd Activity Report.

Activities within the scope of site selection will further be evaluated in Activity 2.4. However, the above-mentioned issue led to a deviation from Annex-I of Description of the Action of the Contract, in such a way that identification, classification and prioritization of POPs contaminated sites in Turkey will be carried out as to provide a general methodology to be followed in the future, whenever there is limited financial resources of the government, but a list of contaminated sites with POPs; and hence will be postponed to 3rd quarter of 2021 and 2022, after the contaminated site is selected and rehabilitation related activities are initiated.

These parameters and pertaining methodology will be run in parallel to legislative work packages and Activity 2.2.3.

Activity 2.2.1. Organization of a One-Day Workshop to Define the Scope of Contaminants and Sectors

This activity is planned for 2021, in the upcoming months. The method of the workshop will be agreed with the Ministry.

Activity 2.2.2. Integration of this data into CSIS

This activity is planned for 2022, since Activity 2.2.1 will provide data for the CSIS software.

Activity 2.2.3. Preparation of a List of Classified Contaminated Sites in Turkey

Completed. This activity is initiated with the currently available contaminated sites in the CSIS. These sites were private sector sites. Due to confidentiality related reasons, this list is not included in the annexes.

Meetings were held with the relevant governmental institutions and several sites were analysed for potential contamination with POPs and two contaminated sites with POPs in the ownership of government/orphan sites are identified. The details are elaborated in Activity 2.3.

Activity 2.2.4. Organization of a one-day dissemination seminar

This activity is planned for September 2022.

Activity 2.3. Prioritization of POPs/Persistent Toxic Substances Contaminated Sites for Remediation

In Progress. Meetings with the relevant experts were realized to discuss and decide on a methodology in terms of how to proceed with this work package. The procurement process was initiated for the Consultancy on the Persistent Substances to prepare a technical document on the Persistent Toxic Substances Report, including use of biocidal products and disinfectants, their effect on soil and water microorganisms, and a draft recommendation for safer use of disinfectants including the type of disinfectants to be used and safeguarding their adverse environmental impacts after COVID 19 Outbreak, and support to prioritization of POPs/Persistent Toxic Substances contaminated sites for remediation.

In this regard, Local Junior Technical Consultant on POPs prepared a report on a list of POPs contaminated sites in different classifications, such as per priority sectors, pollutants and, etc. Another report on disinfectants used for COVID 19 and their toxic effects to human health and environment was prepared and toxicology part will be reviewed and extended with the contributions of the Persistent Toxic Substances Consultants whose contract signature is to be completed recently. These reports were presented in the 4th Activity Report.

Activity 2.3.1. Organization of a One-Day Workshop to Define the Parameters for Prioritization of Contaminated Sites

This activity is not yet initiated and is planned for 4th Quarter of 2021. Prioritization of contaminated sites will be taken into consideration during preparatory studies for the workshop.

Activity 2.3.2. Prioritization of POPs POPs/Persistent Toxic Substances Contaminated Sites

In Progress. There is a deviation from Annex-I of Description of the Action of the Contract, in prioritization related work packages, in such a way that identification, classification and prioritization of POPs contaminated sites in Turkey will be carried out as to provide a general methodology to be followed in the future, whenever there is limited financial resources of the government, but a list of contaminated sites with POPs; and hence will be postponed to 3rd quarter of 2021 and 2022, after the contaminated site is selected and rehabilitation related activities are initiated.

This activity is planned to be completed in the 1st quarter of 2022. It will be completed according to the outputs of Activity 2.3.1.

Activity 2.4. Selection of Two Pilot Areas among the Prioritized Contaminated Sites in Activity 2.3

Completed. Further information with regards to this activity was provided in the 3rd Activity Report.

Site Visit Reports including analysis results for the whole process with regards to the technical selection of these sites and permission letters are illustrated in the 4th Activity Report.

Activity 2.5. Preparation of Operational Plan for 2 pilot sites

Completed. The details are provided in the 4th Activity Report.

Activity 2.6. Preparation of a Supervision and Monitoring Plan for 2 pilot sites

Completed. The details are provided in the 4th Activity Report.

Activity 2.6.1. Operational on-site Technical Supervision including Reporting of the Work for 2 pilot sites

This activity is not yet initiated. Supervision could only be initiated when the works tender is announced, and the contractor to do the rehabilitation is awarded a contract.

It is foreseen that inevitable delays in this activity since these sequential steps are out of full control of TAT. Thus, in the first quarter of 2022, an addendum request is planned to be made in order to fulfil the responsibilities with regards to the supervision of the works component within the scope of the Technical Assistance Project, implemented by UNDP, for extension of project duration.

Activity 2.6.2. Recommendations respecting Post Remediation Plan for 2 pilot sites

Completed. The details are provided in the 4th Activity Report.

Activity 2.7. Preparation of Technical Specification for 2 Pilot Sites for Pilot Application

Completed. The details are provided in the 4th Activity Report.

Activity 2.8. Implementation of Supervision Support and Monitoring Plan for 2 Pilot Sites

This activity is planned for 2022. Preparation of the plan could only be correctly reflected to the workplan when the tendering process is completed, and site remediation studies are initiated for both sites.

Closure Event:

This activity is planned for 2022.

Part B – This activity is in the responsibility of the Contracting Authority and this activity is not yet initiated. Due to above-mentioned handicaps faced during the project implementation beyond UNDP's responsibility, the workplan and submission dates of Activity 2.5, Activity 2.6, Activity 2.7 had been postponed. However, Technical Assistance Project completed Activities between 2.5 and 2.8 (in August 2021, the Beneficiary Institution conveyed the tender dossier to the GDFREU in September 2022 and as of 08.10.2022, slight revisions and view exchanges between the CA and TAT continues) in order to submit the whole tender dossier to the Contracting Authority. The tender is not announced yet, it is expected that the tender dossier is submitted to EUD's approval soon.

**Progress of All Activities during the Period covered by the 3rd and the 4th Activity Reports
(Implementation Phase)**

Table 6: Progress of all activities during the 2nd Progress Report Period

Component 1				
Activity	Expected Outputs/Deliverables	Estimated Completion Time <i>(Submitted AR4 and Revised with PR2)</i>	Remarks	Comments/Date
<i>Activity 1.1. Trainings for staff that will be working on POPs/contaminated sites management from different target groups</i>				Draft TNA Report was submitted to the Beneficiary on 23.09.2020 and the comments was received on 25.09.2020. As per the comments, TNA Report was finalized on 09.10 2020 and training programmes are to be drafted according to these results.
<i>Activity 1.1.1. Central and Provincial level staff training to be held online</i>				
Activity 1.1.1.1. Training on Determination of Soil Pollution Capacity for Assessment	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	17-18-21 December 2020	Due to COVID-19 pandemic, physical trainings are decided to be online at the beginning of the project.	-
Activity 1.1.1.2. Training on Determination of the Cleaning Targets	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	January 2021	Due to COVID-19 pandemic, physical trainings are decided to be online at the beginning of the project.	-
Activity 1.1.1.3. Training on Contaminated Sites Monitoring	<ul style="list-style-type: none"> • Training Report, 	March 2021	Due to COVID-19 pandemic, physical trainings are decided to be online at the beginning of the project.	-

	<ul style="list-style-type: none"> • Certificates to trainees. 			
Activity 1.1.1.4. Detection and Assessment of Pollution Load to the Soil	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	January 2021		-
<i>Activity 1.1.2 Central level and Provincial level staff training to be held through hybrid means</i>				
Activity 1.1.2.1. Training on Health Risk Assessment	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	11-12-13 October 2021 1-2-3 November 2021		-
Activity 1.1.2.2. Training on Alternative Remediation Technologies for Contaminated Sites with POPs	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	22-23-24 November 2021 13-14-14 December 2021		-
Activity 1.1.2.3. Workshops on Recommendation Draft Legislation on Contaminated Sites Legislation and POPs By-Law	<ul style="list-style-type: none"> • Workshop Report 	March 2022		-
Activity 1.1.2.4. Contaminated Sites Information System Training	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	May 2021	There is a deviation in this activity which is explained above in Activity 1.1.2.2 and Activity 2.1.3 in narrative part. It is planned to be	-

			completed at the beginning of 2022.	
Activity 1.1.2.5. Legislation Training	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	February 2021	Postponed to second quarter of 2022.	-
Activity 1.1.3. Training for Companies Certified by MoEUCC with Proficiency on Contaminated Site Remediation	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	February 2021		-
Activity 1.1.4. Sectoral Trainings for Potential POPs Contaminated Site Owners Selected from Contaminated Sites Registration System	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	March 2021	Will be organized at the beginning of 2022.	-
<i>Activity 1.2. Legal Gap Assessment (LGA)/Guidance Documents/Publications Preparation and Update</i>				-
Activity 1.2.1. Conducting LGA for Determination of Deficiencies of the Existing By-Laws on POPs and Contaminated Sites Management.				-
Activity 1.2.1.1. Assessment of Legal Instruments and	Legal Gap Analysis Report	March 2020-End of January 2022	Due to COVID 19 pandemics, the strict limitations that existed in the beginning of the pandemic period,	-

Preparing Legal Gap Analysis			and due to intense period for determination of POPs contaminated sites, this activity is postponed.	
Activity 1.2.1.2. Recommendation Draft Legislation on Contaminated Sites Legislation and POPs By-Law	Draft Recommendation Legislation	May 2020-August 2021	This activity will be completed by October 2022 following the workshops going to be held at the beginning of 2022. Feedbacks of the workshops and the Ministry will contribute the revision of by law.	Recommendations on English translation of the Legislation was submitted to Beneficiary in June 2020. It is decided that it will be finalized by the project experts in 2022.
Activity 1.2.2. Preparation of Dissemination Materials	Dissemination Materials	July 2020-Beginning of 2022	This Activity initiated and will be completed in the beginning of 2022 in order to disseminate all results of the project throughout.	So far, two videos (one final, one in draft version) and one brochure are produced.
Activity 1.2.3. Current Guidelines Elaborating of Documents				
Activity 1.2.3.1. Elaborating on Soil Pollution of the Technical Guide	Soil Pollution of the Technical Guide	September 2020-September 2022	This activity is planned to be conducted at the beginning of 2022. Draft regulation of soil pollution will be submitted for the review of the ministry and followingly several workshops will be conducted on February 2022.	-
Activity 1.2.3.2. Updating of the Report Forms Provided in the Annexes (3, 5, 6 and 7) to Soil Contamination By-law	Annexes (3, 5, 6 and 7) to Soil Contamination By-law	October 2020-September 2022	This activity is also postponed since it is highly related to activity 1.2.3.1. Following the feedbacks received, the annexes will also be updated.	-

<p>Activity 1.2.3.3. Analysis of Relevant International Guidance Documents that are Specific to POPs Contaminated Sites and Preparation of a Technical Guidance Document on POPs</p>	<ul style="list-style-type: none"> • Analysis report • Technical Guidance Document 	<p>January 2021 – April 2021</p>	<p>This activity is planned to be conducted in the first quarter of 2022 by considering best practices internationally.</p>	<p>-</p>
<p><i>Activity 1.3. Study visits</i></p>				
<p>Activity 1.3.1. Visiting an EU country with Contaminated Sites with Different Pollutants and Soil Remediation Techniques</p>	<p>Study Visit Report</p>	<p>November 2021</p>	<p>Due to COVID-19 pandemic, travel restrictions, study visits are postponed to Spring 2022.</p>	<p>-</p>
<p>Activity 1.3.2. A Study Visit to Soil Unit of European Environment Agency or Joint Research Center in ISPRA (Institute for Environment and Sustainability).</p>	<p>Study Visit Report</p>	<p>December 2021</p>	<p>Due to COVID-19 pandemic, travel restrictions, study visits are postponed to Spring 2022.</p>	<p>-</p>
<p><i>Activity 1.4. Establishment of Helpdesk Navigator Software Programme</i></p>				
<p>Activity 1.4.1. Organization of a one-day Workshop</p>	<p>Workshop Report</p>	<p>September 2020</p>	<p>This workshop would normally be held in 2021. However, the Analysis document for Helpdesk Software was ready and this workshop is prioritized to receive feedback and then finalize the analysis</p>	<p>Helpdesk Workshop was realized on 09.09.2020 and the Workshop Report was submitted on 25.09.2020 as annex to this report.</p>

			document. The workshop is held in September 2020 as an online event with the participation of 107 people.	
Activity 1.4.2. Establishment of a Helpdesk Navigator Program	Helpdesk Navigator Programme	October 2020 – May 2021	HelpDesk Navigator Software is developed and waiting for MoEUCC to initiate correspondence with MoEUCC IT Department to include the software in the server for live tests.	-
Activity 1.4.3. Putting the Internet Website of the Helpdesk into Operation	Internet Website of the Helpdesk	March 2022	Once bugs that may arise during live tests are cleared, the HelpDesk will be put into the internet website.	-
Activity 1.5. Health Risk Assessment Software Programme	Development of a Health Risk Assessment Software	June 2022	The first draft software is developed by the expert and will be revised as per the additional comments of other team of experts and the ministry.	It is expected to be monitored in line with the progress in Activity 1.2.1.2. Recommendation Draft Legislation on Contaminated Sites Legislation and POPs By-Law.

Component 2				
Activity	Expected Outputs/Deliverables	Estimated Completion Time <i>(Submitted AR4 and Revised with PR2)</i>	Remarks	Comments/Date
<i>Activity 2.1. Update of CSIS Software</i>				
Activity 2.1.1. Analysis of Current Registration System and Inventory System and underlying Infrastructure and Utilization	Analysis Document	February 2020 – September 2020		Draft Helpdesk Analysis Document was submitted to Beneficiary on 24.07.2020. Final Helpdesk Analysis Document was submitted on 10.10.2020. It is planned to be completed by March 2022.
Activity 2.1.2. Update of CSIS Software	Updated CSIS Software	December February 2020 – October 2022		3 Progress Reports on the update of CSIS software during first progress report period. It is planned to be completed by June 2022.Regular updates on CSIS software process is ongoing. Up to now, 14 Progress Reports have been prepared.
Activity 2.1.3. Organization of a Training about the Fully Developed CSIS Software	Training Report	October 2021	There is a deviation need for this Activity. This need is completed following the analysis of current legislation system which is linked to Activity 2.1.1.	Planned to be completed by September 2022.
<i>Activity 2.2. Identification and Classification of POPs Contaminated Sites in Turkey</i>				
Activity 2.2.1. Organization of a One-Day Workshop to	Workshop Report	December 2021	Since there is no list of contaminated sites (orphan or governmental) as a deviation from	-

Define the Scope of Contaminants and Sectors			the DoA, this activity is postponed, and it will be held online.	
Activity 2.2.2. Integration of this data into CSIS	Updated CSIS with this data	January 2022	Postponed to 2022.	-
Activity 2.2.3. Preparation of a List of Classified Contaminated Sites in Turkey	List of Contaminated Sites	June 2020 (done for private sector sites) August 2021 (done for government sites – only 2 sites were determined)	Completed.	Completed on 2021.
Activity 2.2.4. Organization of a one-day dissemination seminar	Seminar Report	September 2022	Postponed to 2022.	-
<i>Activity 2.3. Prioritization of POPs/Persistent Toxic Substances Contaminated Sites for Remediation</i>				
Activity 2.3.1. Organization of a One-Day Workshop to Define the Parameters for Prioritization of Contaminated Sites	Workshop Report	December 2022	Since there is no list of contaminated sites (orphan or governmental) as a deviation from the DoA, this activity is postponed and will be carried out online.	-
Activity 2.3.2. Prioritization of POPs POPs/Persistent Toxic Substances Contaminated Sites	Prioritized Contaminated Sites list	December 2021	In progress.	-
Activity 2.4. Selection of Two Pilot Areas among the Prioritized Contaminated Sites in Activity 2.3	Permission Correspondences	August 2021	Completed.	-

Activity 2.5. Preparation of Operational Plan for 2 pilot sites	Operational Plan	August 2021	Completed.	-
<i>Activity 2.6. Preparation of a Supervision and Monitoring Plan for 2 pilot sites</i>				
<i>Supervision and Monitoring Plan</i>				
Activity 2.6.1. Operational on-site Technical Supervision including Reporting of the Work for 2 pilot sites	Supervision Reports-operational	August 2021	Completed.	-
Activity 2.6.2. Recommendations respecting Post Remediation Plan for 2 pilot sites	Post Remediation Plan Recommendations Report	August 2021	Completed.	-
Activity 2.7. Preparation of Technical Specification for 2 Pilot Sites for Pilot Application	Technical Specifications	August 2021	Completed.	Draft Tender Dossier was submitted the CA on 30.06.2021 and the CA's comments was received on 29.07.2021. TD is revised in August 2021 and it was submitted to the MoEUCC CA in September 2021.
Activity 2.8. Implementation of Supervision Support and Monitoring Plan for 2 Pilot Sites	Supervision Reports-implementation related	March 2022 – September 2022 <i>(with a need of possible extension of the project that will be considered and raised later)</i>	The initiation time of the works contract is beyond the responsibility of TAT and there may be a need to extend the project in order to align activities of the TA and the works component.	-

2.6.1. The Concrete Results of the Project Components

Whilst Section 2.6 summarizes the expected results for each activity in full detail, still there is a table provided below which refers to the outputs indicatively identified in section 1.5 of the DoA were achieved under each component during the reporting period:

Table 7: Component 0 - Inception

	Main activities	Expected output
0.1	Establishment of Technical Assistance Team (TAT) and office	Inception report Media package Project website, project newsletters, business cards, banners, posters etc. Envisaged delivery date: 12 weeks after the project start date.
0.2	Kick-off meeting (first management meeting)	
0.3	Launch event	

All outputs of Component 0, except for the posters (due to lack of physical meetings – COVID -19), have been produced.

Table 8: Component 1 - Technical and institutional capacity for management of POPs contaminated sites has been strengthened

	Main activities	Expected output
1.1	Trainings for staff that will be working on POPs/contaminated sites management from different target groups	<ul style="list-style-type: none"> • Training need assessment report • Training module and reports Envisaged delivery date: 18 months after the project’s start date. TNA Report is completed. Training modules are completed for the first 3 trainings and their report have also been completed.
1.2	LGA/Guidance documents/publications preparation and update	<ul style="list-style-type: none"> • Legal gap analysis • Recommendation for draft legislation • A public video on general information on POPs contaminated sites • Brochures on general information on POPs contaminated sites, registration and remediation information for contaminated sites, information on post-monitoring activities • Revised guidelines (Technical guidelines on Contaminated Sites Assessment, Remediation, Monitoring and Risk Assessment) • A new guideline on POPs contaminated sites management • Updated report forms of Annexes of Contaminated sites legislation.

		Envisaged delivery date: 30 months after the project's start date.
1.3	Study visits	<ul style="list-style-type: none"> • Study visit reports <p>Envisaged delivery date: 36 months after the project start date. It may be further postponed depending on measures of Covid-19 Pandemic.</p>
1.4	Establishment of Helpdesk Navigator Software Programme	<ul style="list-style-type: none"> • Helpdesk Navigator Software Programme <p>Envisaged delivery date: 30 months after the project's start date. The finalized version of Draft Helpdesk Analysis document, which provides the software architecture of Helpdesk Navigator Programme was submitted and the Programme is nearly ready to be taken into live trials in a few months of time.</p>
1.5	Activity 1.5. Health Risk Assessment Software Programme	<ul style="list-style-type: none"> • Health Risk Assessment Software Programme <p>Software Development Expert was recruited as of 27 September 2021. He is working in close cooperation with Risk Assessment Consultant, and a team of experts working for the development of software and the staff from General Directorate of Environmental Management; Department of Water and Soil Management and General Directorate of Geographical Information System of MoEUCC. First draft of the software programme has been prepared and will be updated as per feedback of team of experts and the Ministry.</p>

None of the outputs, except for the Training Needs Assessment Report are completed as of 08.10.2022.

Table 9: Component 2 - Contaminated sites with POPs have been identified and classified

	Main activities	Expected output
2.1	Update of CSIS Software	<ul style="list-style-type: none"> • Updated CSIS Software • Analysis Document • Training Report <p>Envisaged delivery date: 36 months after the project start date.</p>
2.2	Identification and classification of POPs contaminated sites in Turkey	<ul style="list-style-type: none"> • POPs contaminated sites identification and classification report • Workshop Report • Seminar Report • List of Contaminated Sites • Updated CSIS with this data <p>Envisaged delivery date: 9 months after the project's start date.</p> <p>However, since CSIS programme does not include any government/orphan sites, this activity is postponed and separated</p>

		from the pilot works rehabilitation process. This activity will rather provide a general workflow process.
2.3	Prioritization of POPs/Persistent Toxic Substances Contaminated Sites for Remediation	<ul style="list-style-type: none"> • Prioritized list of POPs contaminated sites • Workshop Report <p>Envisaged delivery date: 12 months after the project's start date.</p> <p>CSIS programme does not include any government/orphan sites, this activity is postponed and separated from the pilot works rehabilitation process.</p>
2.4	Selection of Two Pilot Areas among the Prioritized Contaminated Sites in Activity 2.3	<ul style="list-style-type: none"> • Pilot Site Selection Report <p>Permission Correspondences</p> <p>Envisaged delivery date: 12 months after the project's start date.</p> <p>The reason behind is more elaborately explained narratively under Activity 2.2.</p>
2.5	Preparation of Operational Plan for 2 pilot sites	<ul style="list-style-type: none"> • Technical specification and operational plan of two pilot sites <p>Envisaged delivery date: 15 months after the project's start date.</p> <p>The reason behind is more elaborately explained narratively under Activity 2.2.</p>
2.6	Preparation of a Supervision and Monitoring Plan for 2 pilot sites	<ul style="list-style-type: none"> • On-site Technical Supervision and Monitoring • Supervision and Monitoring Plan • Supervision Reports-operational • Post Remediation Plan Recommendations Report <p>Envisaged delivery date: 15 months after the project's start date.</p> <p>The reason behind is more elaborately explained narratively under Activity 2.2.</p>
2.7	Preparation of Technical Specification for 2 Pilot Sites for Pilot Application	<p>Recommendations respecting Post Remediation Plan</p> <p>Technical Specifications</p> <p>Envisaged delivery date: 15 months after the project's start date.</p> <p>The reason behind is more elaborately explained narratively under Activity 2.2.</p>

Analysis document, training and seminar reports, list of government contaminated sites with POPs including 2 sites, site selection report, technical specifications, supervision and monitoring plan, post-remediation plan are ready as of 08.10.2022. None of the other outputs are completed as of 08.10.2022. A change is needed in the original project document about including the Output 2.3 as a methodology to use for prioritization of contaminated sites with POPs, since as of today, there are no lists, but only 2 government sites selected.

Table 10: Postponed delivery date as per the workplan

Name of Output	Expected Delivery Date (Notification No. 8)	Postponed Delivery Date as the Workplan (Progress Report No.2)
Component 1		
<ul style="list-style-type: none"> Activity 1.1: Trainings for staff that will be working on POPs/contaminated sites management from different target groups Training module and reports	May 2021	Completed.
<ul style="list-style-type: none"> Activity 1.2. Legal Gap Assessment (LGA)/Guidance Documents/Publications Preparation and Update 	January-September 2022	January-September 2022
<ul style="list-style-type: none"> Activity 1.3. Study Visits 	May 2022-July2021	May-September 2022
<ul style="list-style-type: none"> Activity 1.4. Helpdesk Navigator Programme 	January 2022	March 2022
<ul style="list-style-type: none"> Activity 1.5. Health Risk Assessment Software 	-	June 2022
Activity 2.1. Update of CSIS Software	September 2021-October 2022	September 2021-October 2022
Activity 2.2. Identification and Classification of POPs Contaminated Sites in Turkey	October 2021	December 2021
Activity 2.3. Prioritization of POPs/Persistent Toxic Substances Contaminated Sites for Remediation	January-February 2022	January2022
Activity 2.4. Selection of Two Pilot Areas among the Prioritized Contaminated Sites in Activity 2.3	Completed	Completed.
Activity 2.5. Preparation of Operational Plan for 2 pilot sites	Completed	Completed.
Activity 2.6. Preparation of a Supervision and Monitoring Plan for 2 pilot sites	-	Completed.
Activity 2.7. Preparation of Technical Specification for 2 Pilot Sites for Pilot Application	Completed.	Completed.

Activity 2.8. Implementation of Supervision Support and Monitoring Plan for 2 Pilot Sites 8	September 2022	September 2022
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2.7. Risks and Risk Mitigation

As the number of cases infected with the COVID-19 is still showing a drastic increase, UNDP Turkey country office continues to make extensive assessments in order to limit the spread of the COVID-19 pandemic as much as possible with individual and social awareness, which coincides with measures taken at the global and national level. However, UNDP Turkey has been active programmatically and operationally during the outbreak to be able to conduct the project activities and minimize the possible postponements. In parallel with such aim, a Risk Assessment is made for the current situation, with its possible effects on smooth project implementation, delivery of project results, and indicators. Table below shows the risk assessment and mitigation measures including the COVID-19 pandemic.

Following the ratification of Paris Agreement, Presidential Decree was issued by 31643 numbered and 29 October 2021 dated Official Gazette, stating that The Republic of Turkey the Ministry of Environment and Urbanization has undergone a new administrative structuring. Accordingly, the name of Ministry was changed from *The Ministry of Environment and Urbanization* to *The Ministry of Environment, Urbanization and Climate Change* along with the changes in the departmental structuring, including the project's End Recipient's status. In the light of the new structuring, it was deemed necessary to address the possible delays caused by the given situation in the project implementation.

2.7.1 Updated Risk Assessment in the light of COVID 19 Outbreak

Table 11: Updated risk assessment table

Description	Impact & Probability ¹	Mitigation Measures	Status
Insufficient institutional coordination at national and local level to effectively implement chemicals and contaminated sites management	Impact = 3 Probability = 2	The overall strategic direction of the project will be provided by a Project Steering Committee (PSC), consisting of representatives of the MoEUCC/DGEM, the contracting authority (MoEUCC/DGEUFR), UNDP and other stakeholders when deemed necessary. While this multi-sectoral structure will enhance the coordination among institutions at several levels, it is also planned to specifically promote an inter-sectoral coordination mechanism, which will serve as the primary mitigation measure to this risk.	Ongoing
Insufficient output-outcome linkages due to factors outside the control area of the project	Impact = 3 Probability = 2	The PSC will operate several functions where verifying the achievement of the outputs and results of the project is the main one as a primary mitigation measure to this risk. Close coordination between the PSC and technical team will be assured by Operation Coordination Unit (OCU) for proactive management of risks and outside	Ongoing

		factors. The OCU will be formed by the MoEUCC/DGEM representative, technical assistant team (TAT) and Contracting Authority (when necessary), and meet monthly basis to effectively manage the progress of the projects to take corrective measures deem necessary.	
Inadequate stakeholder and technical expertise engagement related to potential institutional change.	Impact = 3 Probability = 2	The project has built in specific mechanisms to support coordination and interaction. However, Turkey is currently undergoing some national political changes that may result in changes to institutional structures or mandates in the coming years. In this context of institutional change, it may be difficult for the project to effectively engage all necessary stakeholders and government experts during project implementation. The project will continuously monitor this risk and take adaptive management measures as necessary if this risk appears to negatively affect the project's operational approach and effectiveness.	Ongoing
In the case of new restrictive measures imposed by the governments due to a new variant of the COVID-19 pandemic, meetings/trainings/workshops/study visits may not be held physically or in a hybrid manner within the scope of the project in the planned dates.	Impact=3 Probability=2	Official travels, meetings, and consultations within the institutions, attendance to meetings/workshops can be postponed until the normalization period begins. Meetings and events can be conducted via online meeting tools when possible. Study visits may be transformed into virtual tours and presentations if necessary.	Ongoing
Delays in works component tender process due to prolonged review/evaluation durations	Impact = 3 Probability= 4	Elevation of the issue to higher level managers through the PSC and OCU meetings will be utilized to address and mitigate this risk. Close coordination between the PSC and technical team will be assured by Operation Coordination Unit (OCU) for proactive management of risks and outside factors.	New

2.7.2 Plans for the Next-coming Period:

Table 12: Plans for the next coming period

Component 1			
Activity	Expected Outputs/Deliverables	Estimated Completion Time	Remarks
<i>Activity 1.1. Trainings for staff that will be working on POPs/contaminated sites management from different target groups</i>			
<i>Activity 1.1.1. Central level staff training</i>			
<i>Activity 1.1.2 Provincial level staff training</i>			
Activity 1.1.2.2. Contaminated Sites Information System Training	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	Beginning of 2022	
Activity 1.1.2.3. Legislation Training	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	Second quarter of 2022	
Activity 1.1.3. Training for Companies Certified by MoEUCC with Proficiency on Contaminated Site Remediation	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	Feb. 2022	
Activity 1.1.4. Sectoral Trainings for Potential POPs Contaminated Site Owners Selected from Contaminated Sites Registration System	<ul style="list-style-type: none"> • Training Report, • Certificates to trainees. 	Feb. 2022	
<i>Activity 1.2. Legal Gap Assessment (LGA)/Guidance Documents/Publications Preparation and Update</i>			
Activity 1.2.1. Conducting LGA for Determination of Deficiencies of the Existing By-Laws on POPs and Contaminated Sites Management.			

Activity 1.2.3. Current Guidelines Elaborating of Documents			
Activity 1.2.3.3. Analysis of Relevant International Guidance Documents that are Specific to POPs Contaminated Sites and Preparation of a Technical Guidance Document on POPs	<ul style="list-style-type: none"> • Analysis report • Technical Guidance Document 	January-March 2022	Experts have been contracted and this Activity will be initiated after tender dossier submission which is an ongoing process and expected to be submitted by the end of December 2021
<i>Activity 1.4. Establishment of Helpdesk Navigator Software Programme</i>			
Activity 1.4.2. Establishment of a Helpdesk Navigator Program	Helpdesk Navigator Programme	Jan-March 2022	Initiated and under development
Activity 1.4.3. Putting the Internet Website of the Helpdesk into Operation	Integration of the Helpdesk Navigator Programme	January-March 2022	-
Component 2			
Activity	Expected Outputs/Deliverables	Estimated Completion Time	Remarks
Activity 2.1. Update of CSIS Software			
Activity 2.1.2. Update of CSIS Software	Updated CSIS Software	December 202 – October 2022	-
Activity 2.2. Identification and Classification of POPs Contaminated Sites in Turkey			
Activity 2.2.1. Organization of a One-Day Workshop to Define the Scope of Contaminants and Sectors	Training Report, •Certificates to trainees.	February 2022	
Activity 2.2.2. Integration of this data into CSIS	Sector and contaminant list from CSIS system	May 2022	
Activity 2.3. Prioritization of POPs/Persistent Toxic Substances Contaminated Sites for Remediation			
Activity 2.3.1. Organization of a One-	•Training Report,	January 2022	-

Day Workshop to Define the Parameters for Prioritization of Contaminated Sites	•Certificates to trainees.		
Activity 2.3.2. Prioritization of POPs POPs/Persistent Toxic Substances Contaminated Sites	list of prioritized POPs/Persistent Toxic Substances contaminated sites	January 2022	-
Activity 2.6. Preparation of a Supervision and Monitoring Plan for 2 pilot sites	Supervision and Monitoring Plan		
Activity 2.6.2. Recommendations respecting Post Remediation Plan for 2 pilot sites	Post Remediation Plan Recommendations Report	completed.	-
Activity 2.8. Implementation of Supervision Support and Monitoring Plan for 2 Pilot Sites	Supervision Reports -implementation related	September 2022	This activity's end date is postponed to the end of the project.

2.8 Project Management and Coordination Activities

2.8.1 Building Up Management Structure and Exercising Its Functions

Monitoring and evaluation exercises are undertaken in compliance with the provisions of the Financial and Administrative Framework Agreement (Article I. Focus on results) and the General Conditions (Article 10. Monitoring and Evaluation of the Action). The expected results, activities, objectively verifiable indicators, sources of verification, and assumptions listed in the Logical Framework constitutes the basis of the Project's M&E system. It was further refined during the Inception Phase. The Organization continuously tracks the progress of the project based on the agreed indicators and all reporting will be carried out accordingly. Indicators are based on objectives that are specific, measurable, attainable, realistic, and time-based. Indicators for the contribution-specific agreement are linked to the more general indicators relevant for the whole Action, wherever possible.

EUD representatives shall be invited to participate in the main monitoring and evaluation missions. The results of M&E exercises shall be reported to the MOEUCC and the EUD. Moreover, as far as possible and appropriate, UNDP and the EUD will explore carrying out jointly the M&E activities.

The Project will be evaluated (technical evaluation) independently. The evaluation is expected to be conducted in the last year of the Project.

The assessment will be on the substance and immediate concrete results of the Project, and will, by no means, include any form of expenditure verification (or Audit), etc. As a result of the assessment, the impacts of the results achieved, lessons learned and good practices in terms of substance will be assessed in a report. Besides, the level of communication and visibility, as well as recommendations for sustainability, will also be explored in the said assessment.

M&E Plan of the Project:*Table 13: M&E Plan*

Name of Report	Time of submission*	Recipients
Inception Report (Turkish & English)	Within 4 months of commencement of the Project.	MOEUCC & EUD
Activity Report (Turkish and English)	Two weeks before each Steering Committee Meeting, to summarize all completed activities within the period covered for the Steering Committee supported with annexes and the planned activities for the next coming period, if applicable.	MOEUCC & EUD
Progress Report (Narrative and Financial) (Turkish & English)	Within 60 days after the period covered by such report. (as per Article 3.9 of the General Conditions)	MOEUCC & EUD
Final Report (Narrative and Financial) (Turkish & English)	Not later than 6 months after the end of the implementation period of the Project (as per Article 3.9 of the General Conditions)	MOEUCC & EUD

The project results as outlined in the project results framework are monitored annually and evaluated periodically during project implementation to ensure the project effectively achieves these results.

Project-level monitoring and evaluation will be undertaken in compliance with UNDP requirements as outlined in the UNDP POPP and UNDP Evaluation Policy. While these UNDP requirements are not outlined in this project document, the UNDP Country Office will work with the relevant project stakeholders to ensure UNDP M&E requirements are met in a timely fashion and to high quality standards. To follow closely on the projects, its results and achievements, UNDP regularly carries out internal M&E activities through an 'Evidence Based Progress Report', and a 'Results and Targets Table' updated regularly during the course of the year. The report and the table mentioned above are finalized annually and are shared with MoEUCC and EUD. The latest internal M&E documents were conveyed on 24 December 2020.

Project Audit

An audit has not been conducted as of 08.10.2021. In line with the Financial and Administrative Framework Agreement (FAFA) and the General Conditions, the financial transactions and financial statements shall be subject to the internal and external auditing procedures laid down in the Financial Regulations, Rules and directives of UNDP. The project audit will be carried out in line with UNDP's policies.

2.8.2 Complying Obligations Regarding Information and Reporting

UNDP reported all aspects of the implementation of the Action. Including Inception Report, Activity reports, progress report and notifications are provided in the table below. The notifications, official letters of submission and approval were submitted as annexes to the Activity Report 3 and Activity Report 4.

Table 14: List of notifications

Notification	Reason / Justification
Notification No. 1	Request for the extension of the inception period, with a postponement in the inception report submission deadline.
Notification No. 2	Request for approval for modifications in the budget as the unit rate that was previously determined in the project budget became insufficient to cover the increase in UNDP Turkey Country Office's Staff Salaries.
Notification No. 3	Request for approval for modifications in the budget in line with changes made to the Project's updated annual work plan. Please kindly refer Activity Report 1 for the exact notification content.
Notification No. 4	Request for additional updates in the Project's annual workplan and delivery dates of the outputs, which was updated due to the changes in the timeline of some of the Project's activities, methods of consultative meetings and trainings as a result of the COVID-19 pandemic. CTA and Key Experts have not been recruited in the first year of the project. One of the reasons behind this modification/postponement was related with the COVID-19 Outbreak. Since CTA and Key Experts are expat staff under the Budget, and since travel bans were imposed among countries, the positions were postponed receiving more effective feedback when these bans are released. Please kindly refer Activity Report 2 for the exact notification content.
Notification No. 5 (conveyed through the 1 st Progress Report, please see Section 2.8.1 for further details.)	Request for approval for modifications in the budget in line of certain budget lines and justifications. The notification also includes minor amendments to the 'Equipment and supplies' budget heading in line with the procurement activities conducted in the first reporting period. Total project budget, contingency reserve and the administrative costs remain intact. Request for additional updates in the Project's annual workplan and delivery dates of the outputs, which was updated due to the changes in the timeline of some of the Project's activities due to the prioritization of the identification of the pilot contaminated sites. Please kindly refer 1 st Progress Report for the exact notification content.
Notification No. 6 (conveyed through 3 rd Activity Report, please see Section 2.8.2)	Request for approval for modifications in the budget in line of certain budget lines and justifications. Total project budget, contingency reserve and the administrative costs remain intact. Request for additional updates in the Project's annual workplan and delivery dates of the outputs, which was updated due to the changes in the timeline of some of the Project's activities due to the prioritization of the identification of the pilot contaminated sites.
Notification No. 7 (conveyed through this Report)	Request for approval for modification in the DoA for Key Expert 2 (Software Development Expert) position as Software Development Expert for the health risk assessment due to exposure to POPs and chemicals. SD will be deployed to develop the health risk assessment software in Turkish language, which has never produced before for the contaminated sites.

Notification No. 8 <i>(conveyed through this Report)</i>	Request for organization of hybrid training activities with the budget savings to enhance the capacity of central and provincial level staff on health risk assessment and alternative technologies. It has been decided that 2 trainings on the above subjects shall be organized separately for both central and provincial staff of the MoEUCC. The number of participants will be limited to 60 for each training due to COVID-19 restrictive measures. This request also was made for F2F workshops for contributing the revision studies and updating the Regulation; therefore, 5 (2-day) workshops with 20 people from central MoEUCC are projected.
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2.9 Methodology

There is no significant change in the methodology, as per the Description of Action.

2.10 Logical Framework

Logical Framework was updated in line with the RBM principles, especially creating indicators for qualitative ones such as institutional capacity building or amending them to fit SMART criteria where necessary. The updated logical framework was approved by the Beneficiary on 22.09.2021 and submitted for the final review of the M&E Analyst of the UNDP. The final version of the Logical Framework was submitted as annex of the 4th Activity Report.

2.10.1 Current Anticipated Problems, Planned Remedial Actions and Lessons Learned from Encountered Problems

One of the major encountered problems in this Project was about the fact that there were no contaminated sites with POPs, which was identified during the implementation period of the Project. This necessitated an adaptive management to be present. TAT changed the workplan, prioritized the site identification tasks and beyond its responsibilities, identified governmental institutions to be visited and outlined an intense meeting/interview schedule with the potential contaminated sites with POPs and visited the site owner institutions together with the technical departments. This involved carrying out site visits and site analysis for identification of a contamination. For this purpose, a budget change notification is made. As a result of intense efforts, the risk of not having any governmental sites for rehabilitation for POPs contaminated was mitigated. Two sites were identified, their tender dossiers were prepared and submitted to the CA. For this adaptive management, TAT postponed certain activities to the third implementation year and inevitably, the works component and their pertaining TA activities will most probably be delayed. Thus, an addendum may be needed for extension of TA project so that the works related activities could be aligned with the works component. As a lessons learnt of this endeavour, for further projects, the sites could be identified at an earlier stage.

Moreover, the recruitment process for CTA position was lengthy and it was not easy to identify candidates who could meet the criteria listed in the TOR. TAT showed adaptive management, tried different alternatives for fulfilling this position and as a result came up with a candidate who may be contracted through his company as per UNDP procurement policies. During this time, the lacking of CTA is compensated with the existing team of experts in the TAT.

Following the ratification of the Paris Agreement, a Presidential Decree was issued in Official Gazette 31643 on 29 October 2021 stating that The Republic of Turkey's Ministry of Environment and Urbanization will be administratively restructured. Accordingly, the name was changed from The Ministry of Environment and Urbanization to The Ministry of Environment, Urbanization and Climate Change, and the departmental structure was changed, including the Project End Recipient's status. This ongoing organizational change presented the possibility of project implementation delays, so activities requiring substantial End Recipient involvement, such as comments and approvals on Project reports, were identified.

Moreover, both due to COVID-19 and unidentified contaminated sites at the beginning of the project, certain work packages which would necessitate meetings, workshops, travels are delayed. In addition to the above-mentioned issues, there may be certain other issues that may affect the project as a result of the COVID-19 Outbreak and the post-crisis period. To have a detailed look on the possible risks that may have effects on the project, please refer to section 2.3.

2.10.2 Project Indicators

Logical Framework was updated in line with the RBM principles, especially creating indicators for qualitative ones such as institutional capacity building or amending them to fit SMART criteria where necessary. The updated logical framework was approved by the Beneficiary on 22.09.2021 and submitted for the final review of the M&E Analyst of the UNDP. The final version of the Logical Framework was submitted as annex of the 4th Activity Report. Indicator target achievement assessment is updated and presented below in Table-15.

Table 15: Project indicators

Outcome/ Output	Description	Indicator	Baseline (2019)	Target (2022)	Achievement	Reasons for Discrepancy (if any)	Sources and means of verification
Specific Objective /Outcome 1	Turkey's capacity on implementation of EU POPs Regulation enhanced	A health risk assessment tool and software developed to determine the adverse health impact of POPs on local populations	No health risk assessment tool available for MoEUCC staff in Turkish	A health risk assessment tool and software in Turkish available for MoEUCC use	A Draft Health Risk Assessment Software was developed in Turkish and submitted to the MoEUCC	Completed in ready to be live-tested mode. To be operational by June 2022.	Software program
Output/Expected Result 1.1	Central and local authorities' technical and institutional capacity for management of POPs contaminated sites has been strengthened	1.1 An effective query response mechanism established on contaminated site management and contaminants	No query response mechanism in place	A Helpdesk Navigator Software Programme in place and being used	A Draft Helpdesk Navigator Software has been developed and submitted to the review of the Ministry.	Completed in ready to be live tested mode. Following the approval, it will be in place and being used in 2022. To be operational by June 2022.	Software program

	1.2 Operationalization of existing legislative instruments on POPs/POPs contaminated sites for their effective implementation	Bylaw on POPs and Contaminated sites not aligned	Recommendations for draft legislation on contaminated sites and POPs by-law submitted to MoEUCC	A roadmap was developed on how to proceed for drafting legislation.	To be drafted by October 2022.	Draft recommendations
		No specific guidance unique to POPs contaminated sites	Technical guidance documents on POPs produced for an effective implementation of legislation	Preparatory meetings with IC s have been conducted.	To be prepared by May 2022.	Technical guidance documents
	1.3 Number of central and local level staff capacitated on management of POPs contaminated sites a) Number of staff members certified b) Staff members who declared training content was useful to their work	0	490	310	700 certificates were issued through five online trainings to totally 310 participants, since some participants were the same MoEUCC staff. 3 trainings remain to be organized.	Participant lists Training Reports
		0	85%	86%	Totally 6 trainings were organized until 22.11.2021. Reports for 4 trainings were prepared. Results: 1) 17-18-21 Dec 2020 Training - 97% of 32 participants found the training content satisfactory. 2) 8-10-12 Feb 2021	Training reports

						<p>Training- 83% of 54 participants found the training content satisfactory.</p> <p>3) 8-9-10 March 2021 Training - 87% of 55 participants found the training content satisfactory.</p> <p>4) 28-29-30 April 2021 - 78% of 54 participants found the training content satisfactory.</p> <p>Overall 86.25% of 195 participants were satisfied with the training content.</p>	
Output/Expected Result 1.2	Contaminated sites with POPs have been identified and classified	Number of POPs contaminated sites identified.	0	2	2	N/A	Technical site visit reports
		A methodology to identify and classify POPs contaminated sites is in place	No available methodology available to identify POPs classified sites	A methodology is in place and being used by MoEUCC to determine POPs classified sites	Preparatory meetings with IC s have been conducted.	It will be prepared following the topics discussed during the workshop. To be delivered as of February 2022.	Methodology

		Contaminated site information software (CSIS) improved with additional modules on identification and classification	CSIS is not update with the legislation requirements and its is written with .net	CSIS is updated with the legislation requirements and its is written with post gre sql	CSIS is upgraded to post gre sql and updates as per legislation requirements are ongoing.	To be completed by October 2022.	CSIS
Output/Expected Result 1.3	Central authority's institutional experience for remediation of POPs contaminated sites have been increased	Technical specification, operational plan, supervision plan documents prepared for two POPs contaminated sites remediation	No technical specification, operational and supervision plans in place for pilot POPs contaminated sites	Technical specification, operational and supervision plans in place for pilot POPs contaminated sites	Technical specification, operational and supervision plans in place for pilot POPs contaminated sites	To be tendered in March 2022.	Technical specification, operational and supervision plans
		Number of pilot applications implemented	No state-owned site contaminated with POPs that has been remedied.	Two POPs contaminated state-owned sites remedied	Tender preparations are completed and to be launched	Delayed due to identification of sites and tender arrangements. The pack is not tendered as of 08.10.2021. Works component is under the responsibility of MoEUCC GDFREU and UNDP has no say over this tendering process. UNDP will supervise works component activities. There may be an extension needed to have the two components' durations parallel.	Technical supervision reports

2.11 Work Plan

An updated work plan is submitted in Annex-15 of 4th Activity Report. Through this 2nd Progress Report, revised timetable of project activities is submitted in Annex-5. Progress report mainly includes the developments and new work plan as a result of the COVID-19 outbreak and the inevitable delay in site determination in Component 2 and Component 3. To minimize the impacts of the outbreak and to ensure a smooth implementation of the project, certain activities in the initial workplan, such as site assessment studies, desk reviews and online trainings were prioritized, while certain other ones, such as study visits, Identification and Classification of POPs Contaminated Sites, Soil Pollution of the Technical Guide and Supervision Support and Monitoring Plan related activities were postponed due to the prioritization of other activities. Also, central, and local level trainings which were conducted online will be extended with more impact through hybrid training modality as per the discussions during 18th and 19th OCU Meetings and the Ministry.

Details and explanations of the minor modifications in the work plan are also submitted in Section 2.6, narrative part with regards to activities.

2.12 Budget

The financial report is also conveyed along with this Progress Report. Minor modifications are reported through Notification No:9 where figures are presented in Annex 6, and detailed explanations are provided in Annex-7.

The Budget and Workplan Notification No. 9 serves as the workplan and budget forecast for the next reporting period (G.C. Article 3.7.i).

2.12.1 Minor modifications

In accordance with Article 11.3 of the General Conditions of the subject Contract, a minor amendment list provided in Table 14 –under Complying Obligations Regarding Information and Reporting Section under Activity Report 4.

The Cluster Lead (Mr. Mahmut Osmanbařođlu) of the project resigned from the project as of October 2020. The Project Manager (Ms. Meral Mungan Arda) resigned from the project as of May 2021. Then, as per UNDP HR policies, a new Cluster Lead (this title is revised as Projects Coordinator in the UNDP Turkey CO) is assigned (Ms. Meral Mungan Arda) to the project. Due to this change, the percentages of Project Manager and Cluster Lead in the project budget has changed. In May 2021 and in June 2021, the Projects Coordinator served for the project 30% of its time. In the rest of the months, this percentage increased to 80%, due to changing nature and dynamics of the project workload. During this time, no Project Manager salary is used from the project budget. The day-to-day management capacity of the TA is managed by the Projects Coordinator, through its increased percentage of workload allocation.

The Project Associate (Ms. Leyla avuř) resigned from the project in September 2021 and as per UNDP HR policies a new project associate (Ms. Gizem Bal) is assigned in September 2021.

In addition, according to the latest developments, arise new needs in the project, below minor modifications were needed to be submitted in order to better serve to the results of the project. Up to now below visibility materials have been produced and distributed in line with the budget (Line 5.8.4 Visibility Materials):

USB, brochures, pen, notebook, project paper files,

Other than mentioned promotional materials, below listed materials are also produced and distributed by remaining in the spared budget line.

Thermos, environment friendly bag, protocol set (calculator, notebook, powerbank, pen).

Above listed produced and distributed materials beyond the project document have been submitted in Activity Reports and here re-mentioned.

In order to increase the diversity of the promotional materials and include innovative ideas, here we submit the possible future design of the materials to be distributed. (Umbrella, raincoat, sustainable & re-recyclable notebook, water bottle, reusable shopping bag) The deviations in the budget are explained in Annex-6. The revised budget as per Notification No:9 is in Annex-7. Total project budget, contingency reserve and the administrative costs remain intact. There are no transfers between budget headings. The list of Contracts is given in Table 17.

The Individual Contract modality is initiated for the procurement of services of the following individuals to perform time-bound and non-staff tasks. Currently, there are no contracts above 60.000 EUR.

Travel and event management services were acquired through UNDP's corporate Long-Term Agreement with SERENAS in the framework of the existing contract conditions (under 60.000 EUR).

Table 16: List of Contracts

Contract reference	Contractor	Procedure followed	Contract Amount
Software Development Expert UNDP-TUR-IC-POPS-20-050	Yahya Akdağ	UNDP's Rules and Regulations on Procurement	94.500 USD
TC on Contaminated Sites UNDP-TUR-RLA-POPs-20-14	Prof. Dr. İpek İmamoğlu	UNDP's Rules and Regulations on Procurement	50.000 USD
TC on Soil Pollution UNDP-TUR-RLA-POPs-20-08	Prof. Dr. Ahmet Karagündüz	UNDP's Rules and Regulations on Procurement	45.000 USD
TC on Risk Assessment UNDP-TUR-RLA-POPs-20-20	Prof. Dr. Elçin Kentel	UNDP's Rules and Regulations on Procurement	35.000 USD
FIDIC&PRAG Consultant UNDP-TUR-IC-POPS-20-071	Cemil Ağırman	UNDP's Rules and Regulations on Procurement	7.000 USD
International Training Expert UNDP-TUR-IC-POP-20-139	Ivan Holoubek	UNDP's Rules and Regulations on Procurement	25.000 USD
Local Junior Technical Consultant on POPs UNDP-TUR-RLA-POPS-21-10	Zöhre Kurt	UNDP's Rules and Regulations on Procurement	19.800 USD

KE-3: Contaminated Sites Management Expert Reference No. 84949	Robert Raschman	UNDP's Rules and Regulations on Procurement	69.289.1 USD
KE-2: Software Development Expert UNDP-TUR-RLA-POPS-21-19	Mustafa Aral	UNDP's Rules and Regulations on Procurement	41,667.00 USD

3. PARTNERS AND COOPERATION

3.1. Relations with the Beneficiaries

UNDP's relationship with the Project Beneficiaries, namely the Ministry of Environment and Urbanization (Environmental Management Department) remains good and fruitful. *There experienced no problem in establishing smooth communication, sharing of information and good practices.*

4. LINK WITH SUSTAINABLE DEVELOPMENT GOALS AND GENDER EQUALITY

Adopted by all United Nations Member States in 2015, the 2030 Agenda for Sustainable Development provides a shared blueprint for peace and prosperity for people and the planet. The 17 Sustainable Development Goals (SDGs) are at the center of the 2030 Agenda, which is an urgent call for action by all countries – developed and developing – in a global partnership. SDGs recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling contaminated sites with POPs and working to preserve our oceans and forests. Strategies for sustainable development and POPs and contaminated sites management have many common elements.

Within this framework, project actively promotes localizing SDGs by central and local authorities and the public at large through the following interventions:

- Involvement of specific sessions on SDGs in the capacity development programs addressing the MoEUCC and other ministries and other associations, as well as social service units such as Women Center at the local level Integration of the policies on effective contaminated sites management with POPs with reference to specific SDGs,
- Mainstreaming the SDGs in basic standards and principles of service delivery and performance management tools to be developed under the Project.

Project is GEN1 and makes direct contribution to SDG 3: Ensure healthy lives and promote wellbeing for all at all ages, SDG 6: Clean water and sanitation and SDG 12: Ensure sustainable consumption and production patterns.

SDG-3: Ensure healthy lives and promote wellbeing for all at all ages

SDG Target 3.9	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.
Indicators	Indicator 3.9.1: Mortality rate attributed to household and ambient air pollution

	Indicator 3.9.2: Mortality rate attributed to unsafe water, unsafe sanitation, and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services) Indicator 3.9.3: Mortality rate attributed to unintentional poisoning
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SDG 6: Clean water and sanitation

SDG Target 6.3	By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally.
Indicators	6.3.1: Proportion of domestic and industrial wastewater flows safely treated 6.3.2: Proportion of bodies of water with good ambient water quality

SDG 12: Ensure sustainable consumption and production patterns

SDG Target 12.4	By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment.
Indicators	12.4.1: Number of parties to international multilateral environmental agreements on hazardous waste, and other chemicals that meet their commitments and obligations in transmitting information as required by each relevant agreement 12.4.2: Hazardous waste generated per capita and proportion of hazardous waste treated, by type of treatment

Project also makes indirect contribution to several SDGs such as SDG-5: Gender equality, SDG-9: Industry, innovation and infrastructure and SDG-17: Partnerships.

SDG-5: Gender Equality

UNDP’s development mandate is entered on gender equality and women’s empowerment. Attaining human development requires multifaceted approaches that will encompass not only economic prosperity but also improve people’s well-being by ensuring an equitable, sustainable, and stable planet and which aims to greater wellbeing for all. As a globally recognized norm for UNDP, gender equality and women’s empowerment integral to every aspect of its work to support countries to eradicate poverty and reduce inequalities and exclusion.

Although it has greater adverse effects on the section whose life relies on natural resources and who is unable to respond to natural disasters, women are facing higher risks and greater burdens from the impacts of climate change in situations of poverty. The inequality is often accelerated by the unequal participation of women in decision-making processes and labor markets, and results in the exclusion of women from climate-related policy-making practices.

Women's involvement in the response to persistent organic pollutants and contaminated sites is crucial due to their local knowledge and capacity in leadership at sustainable practices and brings about a higher level of readiness for the impacts of POPs. Hence, gender equality is one of the core values with which POPs, chemical management and contaminated sites policies and projects should be incorporated. Moreover, there is another technical impact of chemicals in women. Women have higher number of hormones in their bodies. POPs have endocrine disrupting affect and hormone binding effect. Thus, the adverse impact of POPs is observed in women more than they are observed in male bodies. In terms of project results, the project targets that all results are inclusive and gender responsive through:

- Integration of GESI (Gender Equality and Social Inclusion) to policy framework (systematic uttering and inclusion of the perspective)
- Identification of the relevant entry points in local and sectoral fields and dissemination of such knowledge via reports, workshops,

At the work-plan level, gender equality and social inclusion dimension is mainstreamed via GESI expertise, gender-disaggregated data, women participation, reference to GESI best practices, GESI sessions in the meetings, GESI-focused participatory assessments, trainings or GESI modules in the trainings and GESI chapters in the reports. In addition, during the implementation of the project below targets are followed:

- Composition of the trainees: Trainees of the training programs will be composed by a gender sensitive approach. UNDP Turkey CO guidelines, suggestions of the gender advisor are considered during material developments.

In this respect, the project implementation process follows the umbrella scope of the UNDP's approach towards gender equality and social inclusion. Therefore, the gender equality aspect of UNDP is extended in all project activities, including but not limited to the composition of TAT and UNDP Direct Project Costed Staff, selection of short-term experts, women's participation in meetings/trainings/events to be organized under each component. Currently, there are 3 TAT members composed of women. Project experts composed of 3 women, 5 men. It is important to mention that the beneficiary is paying attention to the role of women during decision making process and project implementation. Currently two units in the Ministry has 2 women Unit Heads who are actively taking role and ensuring day to day communication with UNDP. During the upcoming period of the project, it is planned to increase the gender activities of the project by ensuring integration of gender seminars, small sessions within a project activity, training and/or workshop. It is targeted to increase the awareness raising on gender and environment relation while it is a very technical project on chemical waste. The project also follows UNDP's Gender Mainstreaming Tools for Programme Management. In line with the tools, the gender profile of the project including the gender screening and analysis during the project stages is currently being implemented. Emphasizing the role of women in the context of environment will be incorporated to project activities and reports with more detailed explanation. Furthermore, gender equality trainings will be provided as part of certain training activities and supported by a gender specialist to explicitly define gender sensitive approaches to the participants of these institutions.

In the light of above-mentioned issues, Gender Screening document of the project is provided in annexes of the 4th Activity Report.

5. VISIBILITY

All necessary measures are taken to ensure visibility of the European Union and the Republic of Turkey and all visibility actions are carried out following the General Conditions (ANNEX- II - General Conditions to the Contribution Agreements, Article 8). The actions on the visibility of the Project follows the Joint Action Plan on Visibility (2006) and the "Visibility Guidelines for EC-UN Actions in the Field (2014)".

As stated in DoA, the entire visibility actions were discussed and reviewed in detail during the Inception Phase in agreement with the MOEUCC/DGEM, MOEUCC/DGEUFR, and the EUD. Regarding the visibility actions:

- Monthly Newsletters have been regularly designed and published on the project website to reach different target audiences and provide a monthly overview of the latest information about the project. Eleven monthly newsletters were designed in both Turkish and English and published during this period.

Project Newsletters (09 October 2020 and 8 October 2021)	TR: https://bit.ly/3bk2gOx EN: https://bit.ly/3coi7uz
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- The publicity of the project activities is ensured through resource sharing and announcement of the events in the project website, which mainly contains information on POPs, Project documents, and related Regulations. It has been continuously updated and accessible at: www.kalickirleticiler.com.
- Regarding the training activities, all related announcements were made on social media as well the project website to raise awareness on the upcoming events.
- A spot film and 10-minute video about the Water Cycle and POPs have been produced to raise public awareness and draw attention to the ever-decreasing amount of clean water. These videos are submitted for the review of the Beneficiary and revised as per their comments.
- In line with the DoA, effective social media management is provided through UNDP Turkey's social media accounts including Twitter, Instagram, LinkedIn, YouTube, and Facebook. In other words, social media presence is ensured through cross-posting on multiple social media channels of UNDP Turkey.
- Project's social media posts during the second progress reporting period are submitted in the annexes of the 4th Report.
- The visibility materials were prepared in line with the Guidelines and confirmation was sought from the IPA Unit regarding the visibility items. The visibility materials produced during the third reporting period were presented in the 3rd Activity Report.

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07.12.2021

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 Report Rev. 1
 Date:
 Report Rev. 2
 Date:
 Report Rev. 3
 Date:

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