



# VERIFICATION REPORT

## SIA "VIDZEME EKO"

VERIFICATION OF THE  
WASTE HEAP DISMANTLING BY PE  
"ARDS-SERVIS" WITH THE AIM OF  
DECREASING GREENHOUSE GASES  
EMISSIONS INTO THE ATMOSPHERE.

INITIAL AND FIRST PERIODIC VERIFICATION FOR PERIOD 01/10/2008-  
31/05/2012

REPORT No. UKRAINE-VER/0519/2012

REVISION No. 01

BUREAU VERITAS CERTIFICATION



Report No: UKRAINE-ver/0519/2012

VERIFICATION REPORT "WASTE HEAP DISMANTLING BY PE "ARDS-SERVIS" WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSIONS INTO THE ATMOSPHERE"

Date of first issue: 06/07/2012	Organizational unit: Bureau Veritas Certification Holding SAS
Client: SIA "Vidzeme Eko"	Client ref.: Gennadiy Ivanenko

**Summary:**  
Bureau Veritas Certification has made the initial and 1<sup>st</sup> periodic verification of the "Waste heap dismantling by PE "Ards-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere", project of SIA "Vidzeme Eko" located in Shakhtarsk town, Donetsk Region, Ukraine, and applying JI specific approach, on the basis of UNFCCC criteria for the JI, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

The verification scope is defined as a periodic independent review and ex post determination by the Accredited Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the monitoring report against project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the verification process is a list of Clarification, Corrective Actions Requests, Forward Actions Requests (CR, CAR and FAR), presented in Appendix A.

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions. The GHG emission reduction is calculated accurately and without material errors, omissions, or misstatements, and the ERUs issued totalize 1601105 tonnes of CO2 equivalent for the monitoring period from 01/10/2008 to 31/05/2012 (93007 tonnes of CO2 for 01/10/2008-31/12/2008, 424363 tonnes of CO2 for 01/01/2009-31/12/2009, 426055 tonnes of CO2 for 01/01/2010-31/12/2010, 459876 tonnes of CO2 for 01/01/2011-31/12/2011, 197804 tonnes of CO2 for 01/01/2012-31/05/2012).

Our opinion relates to the project's GHG emissions and resulting GHG emission reductions reported and related to the approved project baseline and monitoring, and its associated documents.

Report No.: UKRAINE-ver/0519/2012	Subject Group: JI
Project title: Waste heap dismantling by PE "Ards-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere.	
Work carried out by: Oleg Skoblyk – Team Leader, Lead Verifier Vyacheslav Yeriomin – Team Member, Verifier	
Work reviewed by: Ivan Sokolov - Internal Technical Reviewer Nikolay Chekhmestrenko – Technical Specialist	
Work approved by: Ivan Sokolov - Operational Manager	
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## 1 INTRODUCTION

SIA "Vidzeme Eko" has commissioned Bureau Veritas Certification to verify the emissions reductions of its JI project "Waste heap dismantling by PE "Ards-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere." (hereafter called "the project") at Shakhtarsk town, Donetsk Region, Ukraine.

This report summarizes the findings of the verification of the project, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

### 1.1 Objective

Verification is the periodic independent review and ex post determination by the Accredited Independent Entity of the monitored reductions in GHG emissions during defined verification period.

The objective of verification can be divided in Initial Verification and Periodic Verification.

UNFCCC criteria refer to Article 6 of the Kyoto Protocol, the JI rules and modalities and the subsequent decisions by the JI Supervisory Committee, as well as the host country criteria.

### 1.2 Scope

The verification scope is defined as an independent and objective review of the project design document, the project's baseline study, monitoring plan and monitoring report, and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

The verification is not meant to provide any consulting towards the Client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the project monitoring towards reductions in the GHG emissions.

### 1.3 Verification Team

The verification team consists of the following personnel:

Oleg Skoblyk  
Bureau Veritas Certification      Team Leader, Climate Change Verifier

Vyacheslav Yeriomin  
Bureau Veritas Certification      Climate Change Verifier

This verification report was reviewed by:

Ivan Sokolov  
Bureau Veritas Certification,      Internal Technical Reviewer



Nikolay Chekhmestrenko  
Bureau Veritas Certification,

Internal Technical Reviewer

## 2 METHODOLOGY

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

In order to ensure transparency, a verification protocol was customized for the project, according to the version 01 of the Joint Implementation Determination and Verification Manual, issued by the Joint Implementation Supervisory Committee at its 19 meeting on 04/12/2009. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from verifying the identified criteria. The verification protocol serves the following purposes:

- It organizes, details and clarifies the requirements a JI project is expected to meet;
- It ensures a transparent verification process where the verifier will document how a particular requirement has been verified and the result of the verification.

The completed verification protocol is enclosed in Appendix A to this report.

### 2.1 Review of Documents

The Monitoring Report (MR) submitted by SIA "Vidzeme Eko" and additional background documents related to the project design and baseline, i.e. country Law, Project Design Document (PDD), and Guidance on criteria for baseline setting and monitoring, Host party criteria, Kyoto Protocol, Clarifications on Verification Requirements to be Checked by an Accredited Independent Entity were reviewed.

The verification findings presented in this report relate to the Monitoring Report version 2.0 dated 10/07/2012 and project as described in the determined PDD.

### 2.2 Follow-up Interviews

On 26/06/2012 Bureau Veritas Certification performed on-site interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of SIA "Vidzeme Eko" and PE "ARDS-Service" were interviewed (see References). The main topics of the interviews are summarized in Table 1.

**Table 1 Interview topics**

Interviewed organization	Interview topics
PE "ARDS-Service"	Organizational structure Responsibilities and authorities Roles and responsibilities for data collection and processing Installation of equipment Data logging, archiving and reporting Metering equipment control Metering record keeping system, database IT management Training of personnel Quality management procedures and technology Internal audits and check-ups
CONSULTANT SIA "Vidzeme Eko"	Baseline methodology Monitoring plan Monitoring report Excel spreadsheets

### 2.3 Resolution of Clarification, Corrective and Forward Action Requests

The objective of this phase of the verification is to raise the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for Bureau Veritas Certification positive conclusion on the GHG emission reduction calculation.

If the Verification Team, in assessing the monitoring report and supporting documents, identifies issues that need to be corrected, clarified or improved with regard to the monitoring requirements, it should raise these issues and inform the project participants of these issues in the form of:

- (a) Corrective action request (CAR), requesting the project participants to correct a mistake that is not in accordance with the monitoring plan;
- (b) Clarification request (CL), requesting the project participants to provide additional information for the Verification Team to assess compliance with the monitoring plan;
- (c) Forward action request (FAR), informing the project participants of an issue, relating to the monitoring that needs to be reviewed during the next verification period.

The Verification Team will make an objective assessment as to whether the actions taken by the project participants, if any, satisfactorily resolve the issues raised, if any, and should conclude its findings of the verification.

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To guarantee the transparency of the verification process, the concerns raised are documented in more detail in the verification protocol in Appendix A.

### 3 VERIFICATION CONCLUSIONS

In the following sections, the conclusions of the verification are stated.

The findings from the desk review of the original monitoring documents and the findings from interviews during the follow up visit are described in the Verification Protocol in Appendix A.

The Clarification, Corrective and Forward Action Requests are stated, where applicable, in the following sections and are further documented in the Verification Protocol in Appendix A. The verification of the Project resulted in 2 Corrective Action Requests, 3 Clarification Requests, and 0 Forward Action Requests.

The number between brackets at the end of each section corresponds to the DVM paragraph.

#### 3.1 Remaining issues and FARs from previous verifications

One FARs was pending from determination process, provided by Bureau Veritas Certification Holding SAS.

##### FAR01

Please provide written approval from Host Party.

##### Response

Project obtained Letter of Approval #1777/23/7 dated 06/07/2012 from State Environment Investment Agency of Ukraine. Letter of Approval #12.2-02/9874 dated 29/06/2012 has been issued Ministry of Environmental Protection and regional Development of Latvia Republic, which is Second Party involved.

##### Conclusion

Written project approvals were provided to AIE. The issue is closed

#### 3.2 Project approval by Parties involved (90-91)

Project obtained by Host Party, Letter of Approval #1777/23/7 dated 06/07/2012 issued by State Environment Investment Agency of Ukraine. Letter of Approval #12.2-02/9874 dated 29/06/2012 has been issued Ministry of Environmental Protection and regional Development of Latvia Republic, which is Second Party involved.

The abovementioned written approval is unconditional.

Identified problem areas for project approval, project participants' answers and conclusions of Bureau Veritas Certification are described in Annex A to the Verification Report (See CL02, CL03).



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### **3.3 Project implementation (92-93)**

The purpose of this project is complete dismantling of the waste heap with coal extraction from the mine waste heap near Shakhtarsk town, Shakhtarsk district, Donetsk region, Ukraine. This will prevent greenhouse gas emissions into the atmosphere during burning of the coal at the waste heap. Using of such extraction techniques as sorting rock mass complex and loading rock mass, proposed in this project, the residual coal can be extracted from the waste heap and the coal can be used to cover the energy needs of local consumers. In addition, sorted rock mass of class +30 mm is planned for construction and maintenance roads of 4-5 categories. The reclaimed coal will replace coal that would otherwise have been mined, causing fugitive emissions of methane and using a large volume of electricity during the mining process. The project envisages the assembling and installation of sorting rock mass complex of former mine "Shakhtarsk-Glyboka". The licensed laboratory conducted analysis of fractions 0-30 for the content of combustible matter, ash and moisture, selecting sample products delivered to the customer. Extracted coal then is sold for demands of heat and power production.

The project has been implemented in accordance with the PDD version 1.1 dated 03/07/2012 regarding which the determination has been deemed final.

21/08/2008 – date of equipment installation start-up

01/10/2008 – starting date of the waste heap dismantling.

The verification team of Bureau Veritas Certification Holding SAS can confirm, through the on-site visit that all physical features of the proposed JI project activity including data collecting and storage systems have been implemented, the project is completely operational and has been implemented as described in the registered PDD version 1.1 dated 03/07/2012.

Identified problem areas for project implementation, project participants' answers and conclusions of Bureau Veritas Certification are described in Annex A to the Verification Report (See CL02, CL03).

### **3.4 Compliance of the monitoring plan with the monitoring methodology (94-98)**

The monitoring of the JI project occurred in accordance with the monitoring plan contained in the registered PDD, version 1.1 dated 03/07/2012

For calculating the emission reductions key factors influencing the baseline emissions as well as risks associated with the project were taken into account, as appropriate. For more detailed information, please, refer to the determined and registered PDD, version 1.1 dated 03/07/2012 All





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data sources used for calculating emission reductions are indicated in tables of the Monitoring Report, version 2.0 dated 10/07/2012.

The emission factor used to calculate emission reductions are selected in accordance with the registered PDD version 1.1 dated 03/07/2012. The choice of this emission factor is appropriately justified in the PDD version 1.1 dated 03/07/2012 and in general accuracy and reasonableness are carefully balanced.

The calculation of emission reductions is done based on conservative assumptions and the most plausible scenarios in a transparent manner. The calculation of the baseline emissions is based on the JI specific approach in accordance with the registered PDD version 1.1 dated 03/07/2012.

The calculation of emission reductions is done by subtracting the project emissions from the baseline emissions with additional negative leakage. The detailed calculation of GHG emission reductions for chosen monitoring period (01/10/2008 – 31/05/2012) is provided in supporting documentation.

No problem issues related to the compliance of the monitoring plan with the monitoring methodology have been identified.

### **3.5 Revision of monitoring plan (99-100)**

"Not applicable"

### **3.6 Data management (101)**

Data collection procedure is carried out in accordance with the monitoring plan, including the quality control and quality assurance procedures and has been checked by the verification team on site visit. The monitoring plan is presented in section D of the registered PDD version 1.1 dated 03/07/2012.

The data and their sources, provided in monitoring report, are clearly identified, reliable and transparent.

The evidence and records used for the monitoring are maintained in a traceable manner. Verification team got an access to all necessary data on monitoring system and emission reductions and received necessary evidence on site visit.

The data collection and management system for the project is in accordance with the monitoring plan as described in the registered PDD version 1.1 dated 03/07/2012.

Identified problem areas for data management, project participants' answers and conclusions of Bureau Veritas Certification are described in Annex A to the Verification Report (See CAR02, CL03).

### 3.7 Verification regarding programmes of activities (102-110)

"Not applicable"

## 4 VERIFICATION OPINION

Bureau Veritas Certification has performed the initial and 1<sup>st</sup> periodic verification of the "Waste heap dismantling by PE "Ards-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere." Project in Shakhtarsk town, Donetsk Region, Ukraine, which applies JI specific approach. The verification was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The verification consisted of the following three phases: i) desk review of the monitoring report against the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

The management of SIA "Vidzeme Eko" is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions of the project on the basis set out within the project Monitoring and Verification Plan indicated in the final PDD version 1.1. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the project, is the responsibility of the management of the project.

Bureau Veritas Certification verified the Project Monitoring Report version 2.0 for the reporting period as indicated below. Bureau Veritas Certification confirms that the project is implemented as planned and described in approved project design documents. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project is generating GHG emission reductions.

Bureau Veritas Certification can confirm that the GHG emission reduction is accurately calculated and is free of material errors, omissions, or misstatements. Our opinion relates to the project's GHG emissions and resulting GHG emissions reductions reported and related to the approved project baseline and monitoring, and its associated documents. Based on the information we have seen and evaluated, we confirm, with a reasonable level of assurance, the following statement:

Reporting period: From 01/10/2008 to 31/05/2012

Baseline emissions	:	1243106	tonnes of CO2 equivalent.
Leakages	:	-388766	tonnes of CO2 equivalent.
Project emissions	:	30767	tonnes of CO2 equivalent.
Emission Reductions	:	1601105	tonnes of CO2 equivalent.

From 01/10/2008 to 31/12/2008




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Baseline emissions	:	72503	tonnes of CO2 equivalent.
Leakages	:	-22679	tonnes of CO2 equivalent.
Project emissions	:	2175	tonnes of CO2 equivalent.
Emission Reductions	:	93007	tonnes of CO2 equivalent.

## From 01/01/2009 to 31/12/2009

Baseline emissions	:	328371	tonnes of CO2 equivalent.
Leakages	:	-104387	tonnes of CO2 equivalent.
Project emissions	:	8395	tonnes of CO2 equivalent.
Emission Reductions	:	424363	tonnes of CO2 equivalent.

## From 01/01/2010 to 31/12/2010

Baseline emissions	:	330402	tonnes of CO2 equivalent.
Leakages	:	-104011	tonnes of CO2 equivalent.
Project emissions	:	8358	tonnes of CO2 equivalent.
Emission Reductions	:	426055	tonnes of CO2 equivalent.

## From 01/01/2011 to 31/12/2011

Baseline emissions	:	357909	tonnes of CO2 equivalent.
Leakages	:	-110268	tonnes of CO2 equivalent.
Project emissions	:	8301	tonnes of CO2 equivalent.
Emission Reductions	:	459876	tonnes of CO2 equivalent.

## From 01/01/2012 to 31/05/2012

Baseline emissions	:	153921	tonnes of CO2 equivalent.
Leakages	:	-47421	tonnes of CO2 equivalent.
Project emissions	:	3538	tonnes of CO2 equivalent.
Emission Reductions	:	197804	tonnes of CO2 equivalent.

## 5 REFERENCES

### Category 1 Documents:

Documents provided by SIA "Vidzeme Eko" that relate directly to the GHG components of the project.

- /1/ Project Design Document "Waste heap dismantling by PE "ARDS-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere" version 1.1 dated 03/07/2012
- /2/ Monitoring Report Waste heap dismantling by PE "ARDS-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere" version 1.0 dated 05/07/2012
- /3/ Monitoring Report Waste heap dismantling by PE "ARDS-Servis" with the aim of decreasing greenhouse gases emissions into the atmosphere" version 2.0 dated 10/07/2012
- /4/ ERUs calculation Excel-file "Calculation1.0MR\_xlsx. xlsx"
- /5/ Letter of Approval #1777/23/7 issued by State Environment Investment Agency of Ukraine dated 06/07/2012
- /6/ Letter of Approval #12.2-02/9874 dated 29/06/2012 issued by Ministry of Environment Protection and Regional Development of Republic Latvia

### Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

- /1/ Contract of carbonaceous fraction supply # 02/01-11 from 02/01/2011 . (in Russian).
- /2/ Act of admission and transmission of waste heap from 18/08/2008 between PE ICC "Altair-2007" and PE "ARDS-SERVIS"
- /3/ Agreement # 18/08/08 from 18/08/2008 between PE ICC«Altair-2007» and PE "ARDS-SERVIS"
- /4/ Passport of waste heap under dismantling from 23/05/2006
- /5/ Passport. Scales automobile electronic tenzometric VTA-60, 04/11/2007 #091200795 (in Russian).
- /6/ Agreement of subcontract # 02/01-1 from 02/01/2011 between PE "ARDS-SERVIS" and PE "Industrial commercial company "Technoprominvest" on the work of the dump dismantling.
- /7/ Agreement of subcontract # 02/01/11-2 from 02/01/2011 between PE "ARDS-SERVIS" (Customer) and Ltd "Niva-2012" (Performer) on the work on mining reclamation of the dump
- /8/ Agreement of subcontract # 02/01/11-1 from 02/01/2011 between Ltd "Niva-2012" and PE Industrial commercial company "Technoprominvest" on the work of the dump dismantling.
- /9/ Agreement of subcontract # 18/08/08-3 from 18/08/2008 between PE "Industrial commercial company "Technoprominvest" and "Trading Company "Antares" on the work of the dump dismantling.

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- /10/ Agreement of subcontract # 18/08/08-3 from 18/08/2008 between PE "ARDS-SERVIS" (Customer) and "Trading Company "Antares" (Performer) on the work of the dump dismantling.
- /11/ Certificate of metrological certification #156 from 014/11/2008, the scales automobile electronic tenzometric VTA-60 № 091200795
- /12/ Certificate of metrological certification # 169 from 21/10/2009 the scales automobile electronic tenzometric VTA-60 № 091200795 .
- /13/ Certificate of metrological certification #132 from 18/11/2010 the scales automobile electronic tenzometric VTA-60 № 091200795
- /14/ Certificate of metrological certification # 146 from 25/10/2011. the scales automobile electronic tenzometric VTA-60 № 091200795.
- /15/ Registration certificate MB.2.844.000 ПС on Hygrometer psychrometric issued JSK «Steclopribor» (in Russian).
- /16/ Order Derjspojivstandart Ukraine "Donetskstandartmetrolohiya" SC # 283 of 15/04/2011, the appointing committee to check the conditions for certification of Coal Laboratory.
- /17/ Certificate attestation of Coal Chemical Laboratory PE "Industrial - Commercial Firm" UKRHVMVUHLEKACHESTVO" # VL-089/2011 issued 4/22/2011 was in force prior to 22/04/2014.
- /18/ Certificate number 361 and the protocol number 361 of 28/05/2008, the screening laboratory certification number 347 for grain size and purity sifter loose types of materials to form a square cell that belongs to JSC "Rodnik".
- /19/ Certificate # 00732 and the protocol # 00732 from 15/08/2010, the certification of sieves with mesh metal square cells, type SL-200, pl. # 26047.
- /20/ Certificate # 362 and the protocol # 362 from 28/05/2008, the screening laboratory certification # 348 for grain size and purity sifter loose kinds of materials with a round shape cell
- /21/ Certificate # 334 and the protocol # 334 from 01/10/2008 certification of electric laboratory SNOL 7,2/1100 pl. # 06174.
- /22/ Certificate # 72 dated 05/05/2011, at Electric laboratory SNOL 67/350, pl. # 11928.
- /23/ Certificate # 71 dated 05/05/2011, at Electric SNOL 7,2/1100 pl. # 05793.
- /24/ Certificate # 10 and protocol # 10 dated 25/01/2011, the certification # 347 sieve control type SLM, pl. # 26047 to determine the grain size and purity sifter loose types of materials to form a square cell..
- /25/ Certificate # 9 and protocol # 9 dated 25/01/2011, the certification # 347 sieve control type SLM, pl. # 347 to determine the grain size and purity sifter loose types of materials to form a square cell.
- /26/ Certificate # 8 and protocol # 8 dated 25/01/2011, the screening laboratory certification # 347, pl. # 348 to determine the grain size and purity sifter loose kinds of materials with a round shape cell.
- /27/ Certificate # 7 dated 20/01/2011, at Electric laboratory furnace SNOL 7,2/1100 pl. # 103426
- /28/ Certificate # 330 and the protocol # 330 dated 23/09/2008, the certification of the drying box SNOL 67/350, pl. # 12357
- /29/ Act dated 20/04/201 on the execution of the "Donetskstandartmetrolohiya" SC , coal laboratory tests on PE "VFK" UKRHVMUHLEKACHESTVO "

- certification criteria.
- /30/ Act # 26/70190 of the state weights laboratory calibration of general purpose and standard of all types, certified screens of all types, metrological certification muffle furnaces, electric resistance furnaces.
  - /31/ Guarantee tickets to the electronic scales A 6000, # 759, electronic scales XAS 100/C # 479, # 759, furnace SNOL 67/350, pl. # 12 357 , laboratory electric furnace SNOL 7.2/1100 № 06174
  - /32/ Expert opinion dated 31/03/2011, with the results of examination of documents submitted Coal Laboratory PE "TCF" UKRHYMUHLEKACHESTVO "which examined on measurements in in the state metrological supervision.
  - /33/ Journal of weighing equipment and technology for coal laboratories firm "Ukrhimuglekachestvo" (in Russian).
  - /34/ Passport # 9. Electric Laboratory, pl. # 05793, inv. # 9, the type -SNOL 7.2/1100 (in Russian).
  - /35/ Passport # 7. Electric Laboratory furnace, pl. # 11928, inv. # 7, the type - SNOL 67/350 (in Russian).
  - /36/ Passport # 6. Sieve Laboratory, pl. # 347, inv. # 6 (in Russian).
  - /37/ Passport # 5. Sieve Laboratory, pl # 348, inv. # 5 (in Russian).
  - /38/ Passport # 4. Stopwatch pl. # 7095, inv. # 4, type SOPpr 2a-2-010(in Russian)
  - /39/ Passport # 3. Electronic Scales, pl. # 209 807, inv. # 3, the type of XAS 100/1 (in Russian).
  - /40/ Passport # 2. Electronic Scales, pl. # 214295, inv. # 2, the type of XAS 100/1 (in Russian).
  - /41/ Passport # 1. Scales pl. # 759, inv. # 1, type A-6000 ((in Russian).
  - /42/ Plan for coal laboratory firm "Ukrhimuglekachestvo" (in Russian).
  - /43/ Guide of maintenance. Electric water distiller pharmacy, DE-4-02"EMO" OKP 94 5243, model 737 (in Russian).
  - /44/ Certificate of verification of the working measuring instrument from 15/03/2012 # 02/08-245 - mechanical stopwatch JOP pr-2a-2-000pl. # 7095.
  - /45/ Passport. Mechanical Stopwatch SOppr-2a-2-010 (in Russian).
  - /46/ Quality Certificate # 005 dated 25/04/2008, the chopper vibrating 75T - DRM, pl. # 1087 (in Russian)
  - /47/ Passport-75T DrM.000PS. Chopper vibrating 75T-DRM .
  - /48/ Act of performed work of weighing from 01/12/08 of 31502.25 tons of carbonaceous rocks
  - /49/ Act of admission and transmission of performed work from 01/12/08 for 2862936.80 UAH. and calculation of the costs for the act of performed works
  - /50/ Sales invoice# 49 from 03/12/08, for 31,502.25 tons of Carbonaceous rocks
  - /51/ Certificate # 58 on the quality of coal from 31/11/2008
  - /52/ Act of performed work of weighing from 01/10/10 of 35344.95 tons of carbonaceous rocks
  - /53/ Act of admission and transmission of performed work from 01/10/10 for 3222710.74 UAH. and calculation of the costs for the act of performed works
  - /54/ Sales invoice # 99 from 06/10/10 for 35344.95 tons of carbonaceous rocks
  - /55/ Certificate # 89 on the quality of coal from 31/09/2010
  - /56/ Act of performed work of weighing from 01/04/12 of 38759.35 tons of carbonaceous rocks

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- /57/ Act of admission and transmission of performed work from 01/04/12 for 4219767.15 UAH. and calculation of the costs for the act of performed works
- /58/ Sales invoice# 37 from 05/04/12, for 38759.35 tons of Carbonaceous rocks
- /59/ Certificate # 51 on the quality of coal from 31/03/2012

**Persons interviewed:**

List persons interviewed during the verification or persons that contributed with other information that are not included in the documents listed above.

- /1/ Ivanenko Gennadiy Volodymyrovych - SIA "Vidzeme Eko" JI Project Manager
- /2/ Tymofeev Sergiy Petrovych - SIA "Vidzeme Eko" JI Consultant
- /3/ Stah Yuri Mykhailovych - SIA "Vidzeme Eko" JI Consultant
- /4/ Berestova Irina Ivanivna - PE "ICC Ukrhimuglekachestvo" Head of Laboratory
- /5/ Yuhimenko Myhailo Sergiyovich - PE "ARDS-SERVIS " manager of industrial department
- /6/ Koval Anatoliy Volodymyrovych - SIA "ICC" Tehnoprominvest" Production Manager

VERIFICATION REPORT "WASTE HEAP DISMANTLING BY PE "ARDS-SERVIS" WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSIONS INTO THE ATMOSPHERE"



## APPENDIX A: VERIFICATION PROTOCOL

### VERIFICATION PROTOCOL

Check list for verification, according to the JOINT IMPLEMENTATION DETERMINATION AND VERIFICATION MANUAL (Version 01)

DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
<b>Project approvals by Parties involved</b>				
90	Has the DFPs of at least one Party involved, other than the host Party, issued a written project approval when submitting the first verification report to the secretariat for publication in accordance with paragraph 38 of the JI guidelines, at the latest?	<u>CAR01</u> Please provide in the section A.6 of the monitoring report written approvals from both Parties Involved.	CAR01	
91	Are all the written project approvals by Parties involved unconditional?	See section 90 of this protocol	OK	OK
<b>Project implementation</b>				
92	Has the project been implemented in accordance with the PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	<u>CL01</u> Please explain difference between ERUs indicated in the PDD and in the section A.7 of the MR. <u>CL02</u> Please add information on project activity stops or technical disasters	CL01 CL02	
93	What is the status of operation of the project during the monitoring period?	The project is in operation during the monitoring period. Also see please <u>CL02</u>	OK	OK
<b>Compliance with monitoring plan</b>				
94	Did the monitoring occur in accordance with the monitoring plan included in the	The monitoring was carried in accordance with the monitoring plan included in the PDD version 1.1 which	OK	OK





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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	PDD regarding which the determination has been deemed final and is so listed on the UNFCCC JI website?	the determination has been deemed final.		
95 (a)	For calculating the emission reductions or enhancements of net removals, were key factors, e.g. those listed in 23 (b) (i)-(vii) above, influencing the baseline emissions or net removals and the activity level of the project and the emissions or removals as well as risks associated with the project taken into account, as appropriate?	Key factors influencing the baseline emissions and project activity level, as risks associated with the project, e.g. those listed in 23 (b) (i)-(vii) above, are taken into account in appropriate way	OK	OK
95 (b)	Are data sources used for calculating emission reductions or enhancements of net removals clearly identified, reliable and transparent?	The data sources used for calculating emission reductions are clearly identified, reliable and transparent	OK	OK
95 (c)	Are emission factors, including default emission factors, if used for calculating the emission reductions or enhancements of net removals, selected by carefully balancing accuracy and reasonableness, and appropriately justified of the choice?	The default emission factors used for calculating emission reductions, such as emission factor for electricity consumption, Emission factor for fugitive methane emissions from coal mining, Carbon Oxidation factor of coal, Carbon Oxidation factor of diesel fuel. Selection of emission factors values are selected by carefully balancing accuracy and reasonableness, and choice of them is appropriately justified.	OK	OK
95 (d)	Is the calculation of emission reductions or enhancements of net removals based on conservative assumptions and the most plausible scenarios in a transparent manner?	The emission reductions calculation is based on conservative assumptions and the most plausible scenarios in a transparent manner	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
<b>Applicable to JI SSC projects only_Not applicable</b>				
<b>Applicable to bundled JI SSC projects only_Not applicable</b>				
<b>Revision of monitoring plan</b>				
<b>Applicable only if monitoring plan is revised by project participant</b>				
99 (a)	Did the project participants provide an appropriate justification for the proposed revision?	The project participants have not proposed revision of monitoring plan	OK	OK
99 (b)	Does the proposed revision improve the accuracy and/or applicability of information collected compared to the original monitoring plan without changing conformity with the relevant rules and regulations for the establishment of monitoring plans?	See section 99(a) of this protocol	OK	OK
<b>Data management</b>				
101 (a)	Is the implementation of data collection procedures in accordance with the monitoring plan, including the quality control and quality assurance procedures?	The implementation of data collection procedures is in accordance with the monitoring plan described in the determined PDD, including the quality control and quality assurance procedures	OK	OK
101 (b)	Is the function of the monitoring equipment, including its calibration status, in order?	<u>CL03</u> Usually for electricity account uses two power meters, main and duplicate. The monitoring report indicates only one power meter NIK 2303 ART 1 # 0035358. Please add information on second power meter used for electricity account or describe measures provided if the power meter NIK 2303 ART 1 # 0035358 is out of work	CL03	
101 (c)	Are the evidence and records used for the	The evidences and records are used for the monitoring	OK	OK



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DVM Paragraph	Check Item	Initial finding	Draft Conclusion	Final Conclusion
	monitoring maintained in a traceable manner?	are maintained in a traceable manner		
101 (d)	Is the data collection and management system for the project in accordance with the monitoring plan?	<u>CAR02</u> Monitoring report indicates that same parameters (Additional amount of electricity, consumed in project, Amount of diesel fuel, consumed in project, Amount of coal that has been mined in the baseline scenario and combusted for energy use, amount of sorted fraction (0-30mm), which is extracted from the dumps because of the project activity). Please indicate that all data monitored and required for ERUs calculations will be kept two years after the last ERUs transfer	CAR02	
<b>Verification regarding programmes of activities (additional elements for assessment)_ Not applicable</b>				
<b>Applicable to sample-based approach only_ Not applicable</b>				

**Table 2 Resolution of Corrective Action and Clarification Requests**

Draft report clarification and corrective action requests by verification team	Ref. to checklist question in table 1	Summary of project participant response	Verification team conclusion
<u>CAR01</u> Please provide in the section A.6 of the monitoring report written approvals from both Parties Involved.	90	Letters of Approval were issued by both Parties involved: Letter of Approval from SEIA of Ukraine # 1777/23/7 from 06/07/2012 Letter of Approval from foreign country (Latvia) # 12.2-02/9874 from 29/06/2012	Closed based on correction in MR provided by project developer



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<u>CAR02</u> Monitoring report indicates that same parameters (Additional amount of electricity, consumed in project, Amount of diesel fuel, consumed in project, Amount of coal that has been mined in the baseline scenario and combusted for energy use, amount of sorted fraction (0-30mm), which is extracted from the dumps because of the project activity). Please indicate that all data monitored and required for ERUs calculations will be kept two years after the last ERUs transfer	101(d)	Added in the section B3: All data are collected during monitoring should be archived and stored for at least 2 years after the last application for ERU.	<b>Closed</b>
<u>CL01</u> Please explain difference between ERUs indicated in the PDD and in the section A.7 of the MR.	92	The calculations in the PDD are made according actual data, so the amount of emission reductions in PDD doesn't differ from the calculations in the monitoring report except the last year of monitoring, which is covering a period of 5 months.	Closed based on project participants clarifications
<u>CL02</u> Please add information on project activity stops or technical disasters.	92	Halts because of technical reasons (for servicing) do not exceed one day. Halts because of red-letter days do not exceed two days.	Closed based on project participants clarifications



VERIFICATION REPORT "WASTE HEAP DISMANTLING BY PE "ARDS-SERVIS" WITH THE AIM OF DECREASING GREENHOUSE GASES EMISSIONS INTO THE ATMOSPHERE"

<p><u>CL03</u> Usually for electricity account uses two power meters, main and duplicate. The monitoring report indicates only one power meter NIK 2303 ART 1 # 0035358. Please add information on second power meter used for electricity account or describe measures provided if the power meter NIK 2303 ART 1 # 0035358 is out of work.</p>		<p>The main energy meter belong to the "Shakhtarska - Glyboka" mine and it is located on the remote control of the mine, which is in operation. The meter is served around the clock, and if it is out of action, its immediate replacement is guaranteed. Remote control also has a stand-by meter that takes into account the total electricity consumption of the mine, and therefore this meter was not mentioned in the monitoring report.</p>	<p>Closed based on project participants clarifications</p>
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