



# Environmental & Social Management System

Transport Management Plan

<b>Transport Management Plan</b>		
Effective Date: 01.04.2016	Document Number: OMAS-ESMS-TMP-PLN-001	Rev: 1

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## **1 INTRODUCTION**

### **1.1 Document Number**

This document is the Transport Management Plan for the Öksüt Gold Project. The document reference number for this Management Plan is OMAS-ESMS-TMP-PLN-001.

### **1.2 Purpose**

The purpose of this Management Plan is to:

- define the scope of the Management Plan and set out applicable management interfaces;
- define roles and responsibilities;
- outline the applicable Project Standards relevant to this Management Plan;
- define Project commitments, operational procedures and guidance relevant to this Management Plan;
- define monitoring and reporting procedures, including Key Performance Indicators;
- define training requirements;
- set out references for supporting materials and information.

### **1.3 Application**

The requirements set out in this Management Plan apply to all OMAS activities throughout the lifecycle of the Öksüt Gold Project, including those carried out by contractors.

This Management Plan is based on the OMAS Environmental & Social Management System Framework (OMAS-ESMS-001), which is owned by the OMAS General Manager. Any subsequent changes to the OMAS Environmental & Social Management System (ESMS) Framework may result in changes to this Management Plan.

### **1.4 Commencement**

This Management Plan applies from 1 April 2016.

### **1.5 Authority and Management**

The OMAS Executive Committee approved this Management Plan on 1 March 2016.

This Management Plan is owned by the OMAS Health, Safety, Environment and Training Manager. This Management Plan will be reviewed on a minimum of a six monthly basis during construction and commissioning. During steady state operations, this Management Plan will be reviewed on an annual basis to determine whether any changes or updates are required to the plan unless a more frequent update is required to reflect changing project design or procedures.

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Any requests for changes to this Management Plan must be addressed to the owner of this management plan and will be subject to appropriate review and approval processes as outlined in the MOC procedure set out in the ESMS Framework.

## 2 SCOPE

### 2.1 Scope of this Management Plan

This Management Plan covers all OMAS activities, including contractor activities. Implementation by contractors is addressed in the Contractor Management Framework (OMAS-ESMS-CM-PLN-001).

### 2.2 Overlaps with other Management Plans

This Management Plan is part of the overall suite of Management Plans developed for the OMAS Project and as described in the ESMS Framework (OMAS-ESMS-001).

This Management Plan has overlaps and cross-linkages to a number of other Management Plans which have transport management implications, including:

- the Noise & Vibration Management Plan (OMAS-ESMS-NV-PLN-001), particularly in relation to management of off-site exposure to noise generated by vehicles;
- the Hazardous Materials Management Plan (OMAS-ESMS-HM-PLN-001), particularly in relation to the protection of local communities and the environment from exposure to hazardous materials and spillages;
- the Emergency Preparedness and Response Plan (OMAS-ESMS-ERP-PLN-001), particularly in relation to off-site transport emergencies, incidents and accidents;
- the Community Health, Safety and Security Plan (OMAS-ESMS-CHSS-PLN-001), particularly in relation to community exposure to off-site Project risks related to transportation;
- the Biodiversity Management Plan (OMAS-ESMS-BIO-PLN-001), particularly in relation to road safety and wildlife.

A separate Cyanide Management Plan will be prepared by OMAS and its selected supplier in accordance with the International Cyanide Management Code and Turkish regulatory requirements.

## 3 ROLES AND RESPONSIBILITIES

### 3.1 Key Roles and Responsibilities for Management Plan Implementation

Principal roles and responsibilities for the implementation of this plan are outlined below.

**Table 1: Key Roles and Responsibilities**

Role	Responsibilities
OMAS General Manager	Approval of this Plan and resources required for implementation.
OMAS Health, Safety,	<ul style="list-style-type: none"> <li>• Ensure Project compliance with the Project Standards and other</li> </ul>

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Role	Responsibilities
Environment and Training Manager	<p>requirements set out in this Plan.</p> <ul style="list-style-type: none"> <li>• Responsible for ownership and overall implementation of this plan and ensuring Principal Contractors implement applicable elements of this Plan.</li> <li>• Provide technical support to OMAS Departmental Managers and Principal Contractors to ensure compliance with the Transport Management Plan.</li> <li>• Ensure Plan is available to all OMAS employees and Principal Contractors.</li> <li>• Undertake periodic audits and inspections of OMAS Department and Principal Contractor workplaces against the requirements of this Management Plan and related Procedures.</li> <li>• Report all hazards, non-conformances and incidents.</li> </ul>
OMAS Project Manager (Construction) OMAS Mine Operations Manager Principal Contractor Managers	<ul style="list-style-type: none"> <li>• Ensure that relevant activities are undertaken in accordance with this Management Plan and related Procedures.</li> <li>• Ensure that department personnel are fully trained in transportation management practices.</li> <li>• Ensure incident investigations are undertaken and reported.</li> </ul>
OMAS Community Relations Manager	<ul style="list-style-type: none"> <li>• Engagement with local stakeholders related to off-site transportation.</li> <li>• Management of grievance procedure.</li> </ul>
Contract managers for transport contractors (for operations and construction)	<ul style="list-style-type: none"> <li>• Implementation of OMAS requirements by contractors</li> </ul>

### 3.2 Key Interfaces

Key interfaces in the implementation of this Management Plan (i.e. roles with responsibility for delivering elements of this Management Plan) include:

- OMAS Project Manager, particularly in relation to on-site and off-site transportation management during construction;
- OMAS General Manager Operations, particularly in relation to on-site and off-site transportation management during operations;
- OMAS Director, Finance and Administration, particularly in relation to specification of control measures and requirements in Contractor contracts.

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### 4 PROJECT STANDARDS

Applicable Standards must be complied with for all Project activities (the "Project Standards"). Project Standards comprise:

- applicable Turkish Standards;
- Turkish EIA requirements;
- other commitments to and requirements of Turkish Government authorities;
- applicable international standards and guidelines;
- applicable Centerra and OMAS standards, policies and procedures;
- other industry guidelines with which OMAS has committed to comply.

#### 4.1 Applicable Turkish National Standards

Applicable Turkish national standards related to road safety include:

- *Turkish Road Traffic Law No. 2918.*
- *Notice on prevention of Pollution Caused by Exhaust Gases of Motor Vehicles (Official Gazette 22/10/1992 and #21383.*
- *Regulation on the Transportation of Dangerous Materials by Road (Official Gazette of 24.10.2013; No: 28801).*

#### 4.2 Turkish EIA requirements

The following key commitments are made in the Turkish EIA related to road safety:

- During transportation, tonnage and load limit will be complied with and the existing roads will be repaired according to the projected traffic type and volume in compliance with Turkish standards.
- If needed, the existing roads between Develi and the mine site will be repaired according to the projected traffic type and volume in compliance with the Turkish standards. All the works to be carried out at the said roads will be realized after informing the Metropolitan Municipality of Kayseri. Tonnage and load capacities will be complied with during transportation.
- Speed limits will be applied for the vehicles to be used in the site, the service roads to be used for the transportation between the units will be built so as to allow the passage of at least two trucks and necessary traffic signs will be installed for the regulation of the traffic. The service roads in the mine will be built in a stabilized manner and will be regularly maintained. The usage of the vehicles working for the mine outside the project site will be regularly controlled so that the traffic rules are obeyed at all times.

#### 4.3 Other Commitments to and Requirements of Turkish Government Authorities

None applicable.

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#### **4.4 Applicable International Standards and Guidelines**

The international standards which OMAS will implement are those set by the European Bank for Reconstruction and Development (EBRD). EBRD *Performance Requirement 4: Health and Safety* sets out following requirements related to traffic and road safety (para, 29, 30):

- The client will identify, evaluate and monitor the potential traffic and road safety risks to workers and potentially affected communities throughout the project life-cycle and, where appropriate, will develop measures and plans to address them. For projects that operate moving equipment on public roads and other forms of infrastructure, the client will seek to prevent the occurrence of incidents and injuries to members of the public associated with the operation of such equipment.
- The client will take into consideration relevant EU road and traffic safety management standards, identify road safety measures and incorporate technically and economically feasible and cost-effective road safety components into the project design to mitigate potential road safety impacts on the local affected communities. Where appropriate, the client will undertake a road safety audit for each phase of the project and routinely monitor incident and accident reports to identify and resolve problems or negative safety trends. For clients with vehicles or fleets of vehicles (owned or leased), the client will provide appropriate training to workers on driver and vehicle safety. The client will ensure regular maintenance of all project vehicles.

The following international good practice guidance and legislation have been taken into account:

- The 2002 Road Transport *Directive 2002/15/EC (the European Road Transport Working Time Directive)*.

#### **4.5 Applicable Centerra and OMAS Standards, Policies and Procedures**

None applicable.

#### **4.6 Other industry guidelines with which OMAS has committed to comply**

A Cyanide Management Plan, to meet the requirements of the International Cyanide Management Code, will be prepared and implemented prior to the commencement of operations and prior to the first cyanide shipment to the Project. The Plan will cover all aspects of the transport, storage, use and disposal of cyanide. The Cyanide Management Framework (OMAS-ESMS-CY-PLN-001) outlines the framework for development of the Cyanide Management Plan.

#### **4.7 Summary of Applicable Project Standards**

OMAS will comply with the more stringent of national standards, applicable EBRD requirements and applicable Centerra Standards, with these more stringent standards representing the Project Standards.

### **5 MITIGATION MEASURES AND MANAGEMENT CONTROLS**

A range of management controls have been developed to manage risks and impacts identified in the ESIA. The key management controls are set out below together. Additional procedures and guidelines may be developed, as required to support this Transport Management Plan.

The table below presents the key management controls that OMAS will implement.



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**Table 2: Key Management Controls**

ID	Topic/ Aspect	Applicability / Activity	Control Description	Responsible Parties	Means of verification
TMP01	Transport Route & Schedule	Transport	Communicate transport route(s) and predicted schedule to communities where the transport route(s) run close to or through villages.	Community Relations Manager	Records (e.g. meeting minutes) of community consultations.
TMP02	Road Infrastructure	Transport	Design and build bypass routes and road upgrades and identify and install, in consultation with relevant authorities, all necessary warning signage on public roads that are used for Project transportation.	Project / Operations Manager	"As-built" inspection records for all new and upgraded roads.
TMP03	Traffic and Transport Hazards	Transport	Develop and implement a Traffic and Transport Hazards Training Programme for all employees and contractors addressing transport to site and traffic within the mine working areas.	Health, Safety, Environment and Training Manager	Records of training programme attendance.
TMP04	Traffic and Transport Hazards	Transport	Identify and install all necessary traffic warning signage within the mine working areas.	Health, Safety, Environment and Training Manager	Erected and maintained signage.
TMP05	Driver Training	Driving	Prepare and deliver driver safety training for drivers and operators addressing both offensive and defensive driving skills. This will be mandatory for all OMAS and Principal Contractor drivers working at the site. Chemical Suppliers will provide evidence to OMAS of similar training for drivers.	Health, Safety, Environment and Training Manager	Training records.
TMP06	Traffic Incidents	Transport	Develop and implement a Road Safety Awareness Programme as part of the Community Health, Safety and Security (CHSS) Management Plan, for local communities.	Community Relations Manager	Implementation records for the CHSS Plan.
TMP07	Traffic	On-site Traffic Management	Support Construction and Operation staff in the planning and coordination of traffic management activities.	Health, Safety, Environment and Training Manager and Officer(s)	Completed traffic management plan.

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ID	Topic/ Aspect	Applicability / Activity	Control Description	Responsible Parties	Means of verification
TMP08	Traffic	On-site Traffic Management	Manage the day-to-day delivery of materials and entry of vehicles onto the site.	Health, Safety, Environment and Training Manager and Officer(s)	Completed logs for vehicle entries to and departures from site.
TMP09	Traffic	On-site Traffic Management	Liaise with Construction and Operations staff and Traffic Control Teams, in the planning, coordination and monitoring of traffic operations at site.	Health, Safety, Environment and Training Manager and Officer(s)	Completed daily plans and logs of site traffic.
TMP10	Traffic	On-site Traffic Management	Prepare necessary reports, inspection logs and incident records.	Health, Safety, Environment and Training Manager	Completed reports, logs and incident logs.
TMP11	Traffic	On-site Traffic Management	Investigate all incidents and identify any necessary corrective actions.	Health, Safety, Environment and Training Manager	Completed incident investigation report
TMP12	Plant Machinery Operation	On-site Traffic Management	Deploy "spotters" for plant and machinery operating in building construction areas.	Traffic Control Team	Completed daily activity logs.
TMP13	Traffic	On-site Traffic Management	Cover all dump truck loads with tarpaulins to minimise dust.	Drivers / Health & Safety Coordinator	Inspection logs (refer TMP10)
TMP 14	Road Safety	Contractor Emergency Response	OMAS Contractors will develop appropriate Emergency Response Plans for off-site activities in line with the OMAS Emergency Response Plan and Contractor Management Plan.	OMAS Contractors	Contractor emergency response plans
TMP 15	Road Safety	Vehicle Inspections	Vehicles will be maintained in accordance with manufacturer guidelines and Turkish licensing requirements and periodic verification inspections will be undertaken.	Health, Safety, Environment and Training Manager	Vehicle maintenance records
TMP 16	Road Safety	Fit for Work	All drivers must be fit for work. Employees must not drive after consuming alcoholic beverages and illegal drugs. The Project and site limit is 0.00% BAC. Supervisors and drivers must	All vehicle users	Records review

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ID	Topic/ Aspect	Applicability / Activity	Control Description	Responsible Parties	Means of verification
			ensure that drivers are not fatigued when operating a vehicle.		
TMP 17	Road Safety	Stakeholder Engagement	A road safety and traffic awareness programme will be implemented with local communities along transport routes heavily used by OMAS (see Community Health, Safety & Security Management Plan).	OMAS CR Manager	Implementation of road safety programme

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## **6 IMPLEMENTATION SCHEDULE**

### **6.1 Review and Revision of this Management Plan**

This Management Plan will be reviewed on a minimum of a six monthly basis during construction and commissioning. During steady state operations, this Management Plan will be reviewed on an annual basis and any necessary revisions made to reflect the changing circumstances or operational needs of OMAS. Revision of this Management Plan will be the responsibility of the OMAS Health, Safety, Environment and Training Manager, who is custodian of this Plan.

If material changes to operating procedures are required (as identified through the Management of Change procedure contained within the OMAS ESMS Framework), this Management Plan may be updated on an "as required" basis.

Any revisions to this Management Plan will be uploaded to the OMAS Document Control Centre to ensure that all OMAS staff has access to the latest version of this Management Plan.

## **7 MONITORING**

### **7.1 Overview of Monitoring Requirements**

The Monitoring measures that are to be implemented during the operations phase to assess compliance with Project Standards (see *Section 4: Project Standards*) are described in this section.

In the event that monitoring identified non-conformance with Project Standards, these will be investigated and appropriate corrective actions identified (see Component 12 Non-conformance incident and action management of the OMAS ESMS).

### **7.2 Key Monitoring Activities**

Key monitoring measures are set out below.

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**Table 3: Key Monitoring Measures**

ID	Topic/ Aspects	Methods	Periodicity	Location
TMPm1	Speed Limits	Speed limits will be monitored using GPS vehicle tracking systems which will be installed on all OMAS vehicles and will be required on contractor vehicles where necessary and practicable. Drivers found speeding will be subject to disciplinary action.	Continuous monitoring	All vehicle locations
TMPm2	Animal incidents	All OMAS drivers will be required to report all animal collision incidents involving herd animals, mammals and birds to the OMAS Environmental Coordinator.	Daily	All transport routes
TMPm3	Driver competency	All OMAS drivers will comply with the minimum driver training requirements defined by OMAS. All OMAS drivers will be required to hold a valid Turkish driving license as well as having attended required OMAS training courses and holding appropriate internal permits.	Records maintained and up to date	All drivers
TMPm3	Contractor Management	OMAS will establish an inspection and audit programme to assess contractors' performance with respect to this Transport Management Plan, including: <ul style="list-style-type: none"> <li>Review of Contractors' ability to meet the requirements of this plan prior to appointment</li> <li>Contractors' emergency response procedure (including actions to be undertaken by drivers)</li> <li>Audit of driver competency</li> <li>Vehicle equipment and maintenance records</li> <li>Drivers' training records.</li> </ul>	Prior to a contractor's initial appointment and then on an annual basis. This frequency can be adjusted depending on contractor's performance over time.	Contractors' depots
TMPm4	Inspections	Visual inspection, by the OMAS Environmental Coordinator of dust levels, particularly during construction, along the haulage routes and in particular at sensitive locations e.g. residential areas.	Following road construction and/or upgrading and In the event of a complaint	Principal haulage routes
TMPm5	Impact on communities	OMAS will continue to engage with local communities adjacent to haulage routes (specifically the bypass road and site access road) to establish the extent of impact caused by Project traffic.	On-going	Residential areas along or in close proximity to the Project haulage routes.

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### 7.3 Key Performance Indicators

The table below summarises the key performance indicators and associated key monitoring actions that can be used to assess the progress and effectiveness of proposed mitigation strategies.

**Table 4: Key Performance Indicators and monitoring actions**

ID	KPI	Target	Monitoring measure
TMP-KPI 01	Reported non-compliances against the mitigation controls identified in this Transport Management Plan	Minimise and achieve continuous improvement in number of reported non-compliances	See 'means of verification' column in <b>Error! Reference source not found.</b>
TMP-KPI 02	Number of drivers found to be exceeding speed limits or driving unsafely	Minimise with a target of zero per year	Review of records of driver speeding and reported safety incidents
TMP-KPI 03	Number of road traffic accidents involving: <ul style="list-style-type: none"> <li>• Human harm</li> <li>• Spillages (such as cargo or fuel)</li> <li>• Wildlife collisions</li> </ul>	Minimise with a target of zero per year	Analysis of incident reporting records
TMP-KPI 04	Number of transport related complaints from local communities	Minimise with a target of zero per year  Resolve any in a timely manner	Grievance records

## 8 TRAINING

### 8.1 Overview

All OMAS drivers will be required to hold a valid Turkish driving license as well as having attended required OMAS training courses and holding appropriate internal permits as required.

### 8.2 Induction Training

All employees of OMAS and Contractors working at the Öksüt Gold Project site will be provided with general induction, site specific induction and a broad range of health, safety and environmental awareness training.

### 8.3 Job-Specific Training

Minimum requirements to drive on site are:

- current drivers licence;
- current OMAS HSE and General induction;
- annual Pit Permit assessment for those who carry the Pit Drivers Permit.

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#### **8.4 Other Training Requirements**

All employees of OMAS and Contractors to OMAS responsible for transport-related activities shall be provided with toolbox training that outlines the mitigation measures identified in Table 3.

### **9 AUDIT AND REPORTING**

#### **9.1 Auditing**

Daily inspections will be carried out by operational area supervisors covering a broad range of operational aspects, including community health safety and security issues as appropriate to activities outside the Mine Licence Area.

Any incidents identified during these inspections will be reported to the incident management system (Component 10 of the ESMS).

Conformance will be monitored in accordance with Component 11 of the ESMS (Monitoring and Evaluation).

All incidents and non-conformances will be reported as per the requirements of the OMAS ESMS described in the ESMS Framework.

#### **9.2 External Auditing**

Conformance with this plan will be subject to periodic assessment as part of the Centerra audit programme and separately by Project Lenders.

#### **9.3 Record Keeping**

Records of audits, inspections and incidents will be managed in accordance with OMAS procedures.

### **10 DOCUMENT CONTROL**

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Version Number	01