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|  | **NATIONAL ADMINISTRATION**  ”ROMANIAN WATERS”  6 Edgar Quinet St., 1st district, code 010018, Bucharest, Romania,  Phone: 021. 311.0146, 021. 315.13.01; Fax: 021.312,21.74, 021.312.37.38  TAX CODE: RO24326056/13.08.2008; IBAN: RO 85 TREZ 700502201X009067 |  |
| <http://www.rowater.ro> |

**Code: F-AA-11**

**SITE APPROVAL**

No. 1 of .20 September 2017

regarding: **the "Waste oil recycling plant, the Municipality of Oltenița, County of Călărași" Cadastral code: 1.000.00.00.00.0 — Danube**

1. **GENERAL DATA**

**Customer:** S.C. GREEN OIL AND LUBES S.R.L., Bucharest, 1st district, 2 Cehov St., 3rd floor

**Specialized designer:** S.C. SMART ECOLOGIC CONSULTING, S.R.L., Bucharest, developer certified by the Ministry of Environment, in accordance with the certificate no. 94/17 December 2015, until 17 December 2018.

1. **CHARACTERIZATION OF LOCATION**

The land proposed for investment lies outside of the built-area of the location, at a distance of over 770 meters to the first housing, not affecting the residential area by the presence of the industrial buildings and current activities.

The land area corresponding to the objective is 178,846 m2.

The access to the land subject to the investment will be made through the national road - DN 4 - Dana in Oltenița Port area, further on Portului Street on an area of approximately 970 metres (modernized road).

From Portului Street, access is done on a unmodernised road of approximately 200 meters, a road, which the beneficiary will modernize.

The land lies in the private sector of Oltenița Town and is leased by S.C. GREEN OIL AND LUBES S.R.L.

***Hydrological data***

Determination of maximum outflow elements necessary for hydraulic calculations has been made through the Hydrological study in Oltenița area - made by the National Institute of Hydrology and Water Management (order confirmation no. 549/13 June 2017).

The hydrological data on maximum outflow are as follows:

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| **River - Section** | **F (km2)** | **QmaxiMmc/e)** |
| **Hmaxi% (mdMN)** |
|  | 692,900 | 16,600 |
| The Danube River, downstream the confluence of Argeș River |  | 18.26 |
|  | 12,550 | 1,600 |
| Argeș River, upstream the confluence of Danube River |  |  |

**On** the basis of measurements made at the Oltenița hydrometric station on the Danube (reporting "0" at rod), the maximum amount of water corresponding to the flow with the probability of exceeding p = 1% - in a reference system Black Sea 75 has been determined:

Hmaxl%Danube**= 18.26 mdMNS = 18.12 mdMN75.**

2

**Results of hydraulic calculations**

On the basis of the hydraulic calculation on Argeș River (leading to the determination of maximum high-water levels with p = 1% in 9 sections) and the maximum high-water level with p = 1% on the Danube River, it has resulted that the location of. the investment objective is in a floodable area.

*Flooding of Argeș River*

In the hydraulic calculation on Argeș River, the downstream threshold condition was the water level on the Danube — corresponding to the flow with a probability of exceeding of p = 1% (16,600 me/s), Hmaxl%Danube= 8,12 mdMN75.

The results of the hydraulic calculations on the Argeș River for the flow with a probability of exceeding of p = 1% are the following:

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| **Transverse  profile** | **Mileage.** | **Flow  (co= 1%)** | **Maximum level (p = 1%)** | **Speed** | **Length of band  floodable** | |
| **[m]** | [m3/s] | [mdMN75] | [m/s] | [ml | |
| PT 9 | 4930 | 1600 | 19.56 | 2.01 | 189.16 | |
| PT 8 | 4126 | 1600 | 19.38 | 1.32 | 498.98 | |
| PT 7 | 3535 | 1600 | 19.24 | 1.47 | 924.32 | |
| PT 6 | 2934 | 1600 | 19.06 | 1.36 | 1115.53 | |
| PT 5 | 2328 1600 | | 18.81 | 1.53 | 723.59 | |
| **PT** 4 | **1536** | **1600** | **18.53** | **1.6** | **425.77** | |
| **PT 3** | **933** | **1600** | **18.3** | **1.77** | **268.48** | |
| **PT 2** | **535** | **1600** | **18.21** | **2.17** | **346.83** | |
| PT 1 0 1600 18.12 0.72 948.42  *NOTE: Sections marked in the table are in the site.* | | | | | |  | |  |
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| **Transverse  profile** | **Maximum level**  **(p = 1%)**  [mdMN75] | **Level of the dam on the left  shore** [mdMN75] | **Level of the dam on the right  shore** [mdMN75] | **Left shore dam freeboard**  [m] |
| PT 9 | 19.56 | 22.03 | 22.18 | 2.47 |
| PT 8 | 19.38 | 22.15 | 19.99 | 2.77 |
| PT 7 | 19.24 | 23.60\* | 19.76 | 4.36 |
| PT 6 | 19.06 | 23.63\* | 19.84 | 4.57 |
| PT 5 | 18.81 | 23.10\* | 19.67 | 3.43 |
| **PT 4** | **18.53** | **19.91** | **20.07** | **1.38** |
| **PT 3** | **18.30** | **19.84** | **19.66** | **1.54** |
| **PT 2** | **18.21** | **19.88** | **19.69** | **1.83** |

*\*- safety dike NH1 related to Danube-Bucharest canal (pending preservation).*

As a result of hydraulic calculations, it results that the future enclosure is not endangered by the floods on the Argeș River, with flow rates with the probability of exceeding p = 1% (left shore dam freeboard of Argeș River being registered at Hmaxi% Argeș, being between 1.38 m ÷ 1.83 m on the site of the future objective).

*Flooding of Danube*

Intersecting the numerical model of the land with the plane determined by the water level corresponding to the flow rate with the probability of exceeding p = 1% on the Danube River (Q1% = 1600 me / s) and namely: Hmaxl% Danube = 18.12 mdMN75 - it results that the entire enclosure of the future objective is floodable.

Since most of the land within the enclosure of the future objective is in the range of 16.50-17.00 mdMN75 - it results that at the flood with the probability of p = 1% on the Danube, the land in question is under a fall comprised between: 1,12 ÷ 1.62 m.

Following the hydraulic calculations, it results that:

3

* the enclosure of the future objective is not in danger of the floods on the Argeș River, having flows with the probability of exceeding p = 1% (the left shore dam freeboard registered at Hmax1°/0 Argeș being between 1.38 m ÷ 1.83 m on the site of the future objective).
* regarding the floods in the Danube, the enclosure of the future objective has mostly land between 16.50 ÷ 17.00 mdMN75, the water level at the maximum flow with the probability of exceeding **p** = 1% (16,600 mcls) is Hmax1%Danube = 18.12 mdMN75 - resulting that in case of a flood with the probability of exceeding p = 1% on the Danube, the land shall be floodable, being under a fall between 1.12 ± 1.62 m

**3. PURPOSE OF INVESTMENT AND COORDINATION AND COOPERATION ELEMENTS**

The purpose of this approval is to execute works to eliminate the flooding conditions from the area related to the waste oil recycling plant located in Oltenița, adjacent to two watercourses (Danube: **1** and Argeș: XIV - 1). For this investment, the Planning Certificate 268/22 November 2016 issued by Oltenița Town Hall and the official letter no. 15194 / LAN / 4 May 2017 issued by the Ministry of Environment have been issued regarding the consultations with the Bulgarian party on the Regional Urban Planning of the waste oil recycling plant in Oltenița, Călărași County.

*Inclusion in the class of importance:*

The construction is classified in the class of importance according to the criteria specified in STAS 4273/83 - "Hydrotechnical Constructions. Classification into classes of importance" According to STAS 4273 - 83 - the category of hydrotechnical constructions for defending the industrial objectives of national importance is 2, the class of importance being II.

According to STAS 4068/2-87, the flow rate corresponds to the probability of exceeding p = 1%.

*Correlation and coordination elements:*

* Planning certificate no. 268/22 November 2016 issued by Oltenița Town Hall;
* Official letter no. 15194 / LAN / 4 May 2017, issued by the Ministry of Environment, regarding consultations with the Bulgarian party on the Regional *Urban Planning of the waste oil recycling plant, the Municipality of Oltenița, County of Călărași;*
* Water management approval no. 109/28 July 2017 regarding the Regional Urban Planning *of the waste oil recycling plant, the Municipality of Oltenița, County* of Călărași, issued by Buzău - lalomița Water Basin Administration;
* Land concession contract intended for the construction of waste oil refinery concluded between Oltenița Town Hall and S.C. GREEN OIL AND LUBES S.R.L., accompanied by the Authentication report no. 855/9 March 2017;
* Declaration on own responsibility on the flooding of the area authenticated by the authentication report no. 1003 / 12 July 2017;
* Hydrological study in the area of Oltenița Municipality, elaborated by the National Institute of Hydrology and Water Management;
* Water Canal Site - Approval no. 6114 / 19 December 2016, issued by S.C. ECOAQUA S.A. — Oltenița Branch;
* Official letter no.15194/LAN/4 May 2017, issued by the Ministry of Environment, regarding the consultations with the Bulgarian party on the Regional Urban Planning of the waste oil recycling plant, the Municipality of Oltenița, County of Călărași;
* Approval no. 8061/14 December 2016, issued by the Association of Organic Agriculture Operators - BIO ROMANIA Association (custodian of the protected area ROSCI0088 Gura Vedei Saica Slobozia together with ROSPA 0038 Danube - Oltenița and with ROSPA0090

Ostrovu — Lung - Gostinu, on the Regional Urban Planning of the Waste oil recycling plant, strip ground 89, plot A5774, cadastral no. 24108, the Municipality of Oltenița, County of Călărași;

**4**

* Announcement published in a local newspaper and public information displayed at the headquarters of Oltenița Town Hall no. 15702/6 July 2017.

Following the submitted application and technical documentation, registered with the National Administration "Romanian Waters" under the no. 14788/1 August 2017, the completions registered under the no. 17346/5 September 2017 and the specialized technical report no. 1 / 18 September 2017 issued by Buzău Water Basin Administration -

**Under the Water Law no. 107/1996 as further amended and supplemented, of GEO no. 107/2002 on the establishment of the National Administration "Romanian Waters", as further amended and supplemented, of the Order of the Minister of Environment and Water Management no. 2/2006 on the approval of the methodological norms regarding the site approval, it issues the following:**

**SITE APPROVAL**

on: **"Waste oil recycling plant, the Municipality of Oltenița, County of Călărași** which includes according to the documentation the following:

*Work for eliminating the flooding conditions from the area of the site, namely an area of 178,846 m2, the area that is floodable at the 1% flow on the Danube, namely, placing the future objective on a platform with a minimum height of:*

***HAMM PLATFORM LEVEL = Hmaxl%Danube + 0,5 m (freeboard)***

***HMINIM PLATFORM LEVEL = 18.12 mdMN75 + 0,5 m = 18.62 mdMN75***

Works of deforestation, demolition, landscaping shall be executed for the construction of the platform that will serve as a location for the waste oil recycling plant. These consist of:

* cutting trees and shrubs or, when possible, pulling them out of the root, removing isolated stubs and roots, removing the wood from the terrain on which the embankments will be executed.
* examining the underground networks of water, gas, sewage, electricity installations, etc. in the area of construction, for which the special measures to be taken will be determined so that the demolition works are not compromised by their possible accidental destruction and to avoid accidents or fires.
* excavation of the vegetated, mechanized layer, the vegetation soil resulting from the excavation being deposited in the center of gravity of the areas provided by the project to be arranged with green spaces.
* fillings with earth resulting from borrow pits or mineral deposits, etc. provided that before being put into operation they are studied in terms of compaction possibilities and chemical action on the building elements in the field, such as the environment. Cohesive soil fillings compacted by rolling are made in flat layers with uniform thicknesses initially established by sample compaction so as to achieve the prescribed degree of compaction over the entire thickness and surface area by an appropriate number of successive passes. Before the filling is done it is necessary to remove the layer of vegetal soil and the resulted surface

is set with slopes of 1.0 - 1.5% for ensuring precipitation water drainage.

5

The water drainage to the land on which the construction works are carried out is done by the execution of guarding trenches that direct these waters outside the working areas.

*According to the Order of the minister of environment and forest no. 799/2012 (Article 1, paragraph 4), liability for the correctness of the data submitted in the documentation belongs to the designer of the technical substantiation documentation.*

**The site approval is issued subject to the following conditions:**

* the site approval is a complaint approval.
* obtaining of the site approval does not exclude the obligation to obtain the water management approval and the other approvals provided by the law.
* to inform Buzău - Ialomița Basin Water Management, 10 days before the date of start of works;
* to obtain, prior **to the start of the approved works, the acceptance of the riparians, according to the** provisions of the Order of the Minister of Environment and Water Management no. 2/2006;
* to perform the systematization and grounding works, before the interior construction in the production area;
* to inform Buzău - lalomița Basin Water Management and the issuer of this site approval in the event of changes in the solution during the execution of the works;
* not to claim damages from Buzău - lalomița Basin Water Management in case of flood damage at the site;
* to comply with and not to surround the protection area of ​​the Danube and Argeș River, established according to the Water Law no. 107/1996, as further amended and supplemented;
* the beneficiary, through the constructor, has the obligation to take measures for the protection of the water quality, prohibiting the dumping in the bed and on the banks of the water courses of any kind of materials or wastes from the used working technology;
* during the execution of the works, in case of accidental pollution, the beneficiary of the work will inform Buzău - lalomița Basin Water Management and will intervene immediately in accordance with the provisions of its own intervention plan in case of accidental pollution;

The site approval is valid for the entire duration of the objective for which it was requested in the following conditions:

the execution of the flood defense works provided in the approval will begin within a maximum of one year from the issuance of the notice, respects the provisions of the technical documentation and of the site approval and is completed within a maximum of 2 years;

after completion of the flood defense works, the holder requests and obtains the water management approval for the objective in question;

* the execution of the objective begins within 2 years from the receipt of the water management approval.

- if any of the above conditions are not respected, the site approval loses its validity, and it is necessary to request a new site approval on the basis of new documentation and other up-to-date opinions.

The technical substantiation documentation endorsed for proof of non-alteration by the authority in the field of water management is an integral part of this water management approval.

**GENERAL MANAGER,   
VICTOR SANDU**

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**DIRECTOR OF THE WATER RESOURCE MANAGEMENT DIRECTORATE. dr. eng. D**`**ragoș CAZAN**

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**HEAD OF DEPARTMENT eng. Daniela SACUIU**

WATER RESOURCE MANAGEMENT DIRECTORATE - Water Management System

dr. eng. Roxana Dumitraș