



APPLICATION FOR ENVIRONMENTAL AUTHORISATIONS

PROPOSED FLOOD REMEDIAL MEASURES AT THE DASPOORT WASTE WATER TREATMENT WORKS NEXT TO THE APIES RIVER/ SKINNERSPRUIT CONFLUENCE

Gaut: 002/11-12/E0296

BACKGROUND INFORMATION DOCUMENT

PURPOSE OF THIS DOCUMENT

The City of Tshwane (CoT) intends to construct flood remedial measures at the Daspoort Waste Water Treatment Works. The purpose of this Background Information Document (BID) is to provide:

- Stakeholders with an opportunity to register as an Interested and Affected Party (IAP),
- Background information on the proposed project,
- Information on the Environmental Authorisations that will be applied for and the process that will be followed,
- IAP with an opportunity to raise issues and concerns throughout the application process.

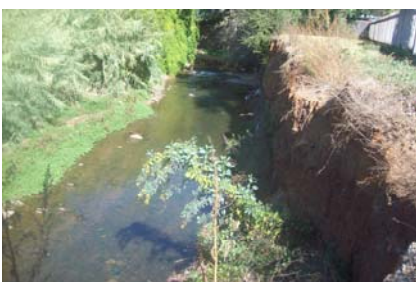
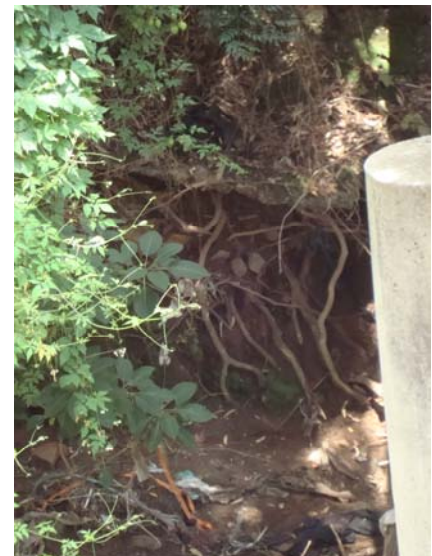
BACKGROUND

Certain areas within the City of Tshwane (CoT) is prone to flooding during rainfall events due to anthropogenic activities such as the increase of runoff from parking areas, and this may pose a serious risk to human lives and damages to infrastructure.

Consulting Engineers were appointed to assist the CoT in all aspects of flood management. During this process various areas were identified that pose a risk to infrastructure and more important to human lives. Priority areas were identified that require urgent flood remedial measures.

The Daspoort Waste Water Treatment Works (WWTW) was identified as an area which requires urgent attention. The WWTW is situated on the corner of DF Malan Drive (M1) and Bazaar Street in Pretoria at the confluence of the Apies River and the Skinnerspruit (refer to **Figure 1**).

The WWTW floods frequently during rainstorm events and this is posing a serious risk to the WWTW's infrastructure. During these flood events the rivers also causes significant erosion to the banks on both the Skinnerspruit, the Apies River and the bridge that provide access to the staff village. Currently both the rivers has eroded the river banks to such an extent that the soil below the security fence is being eroded away and this pose a serious threat to security and a risk that the fence may be damaged.



Erosion along the river banks of the Apies River/Skinnerspruit

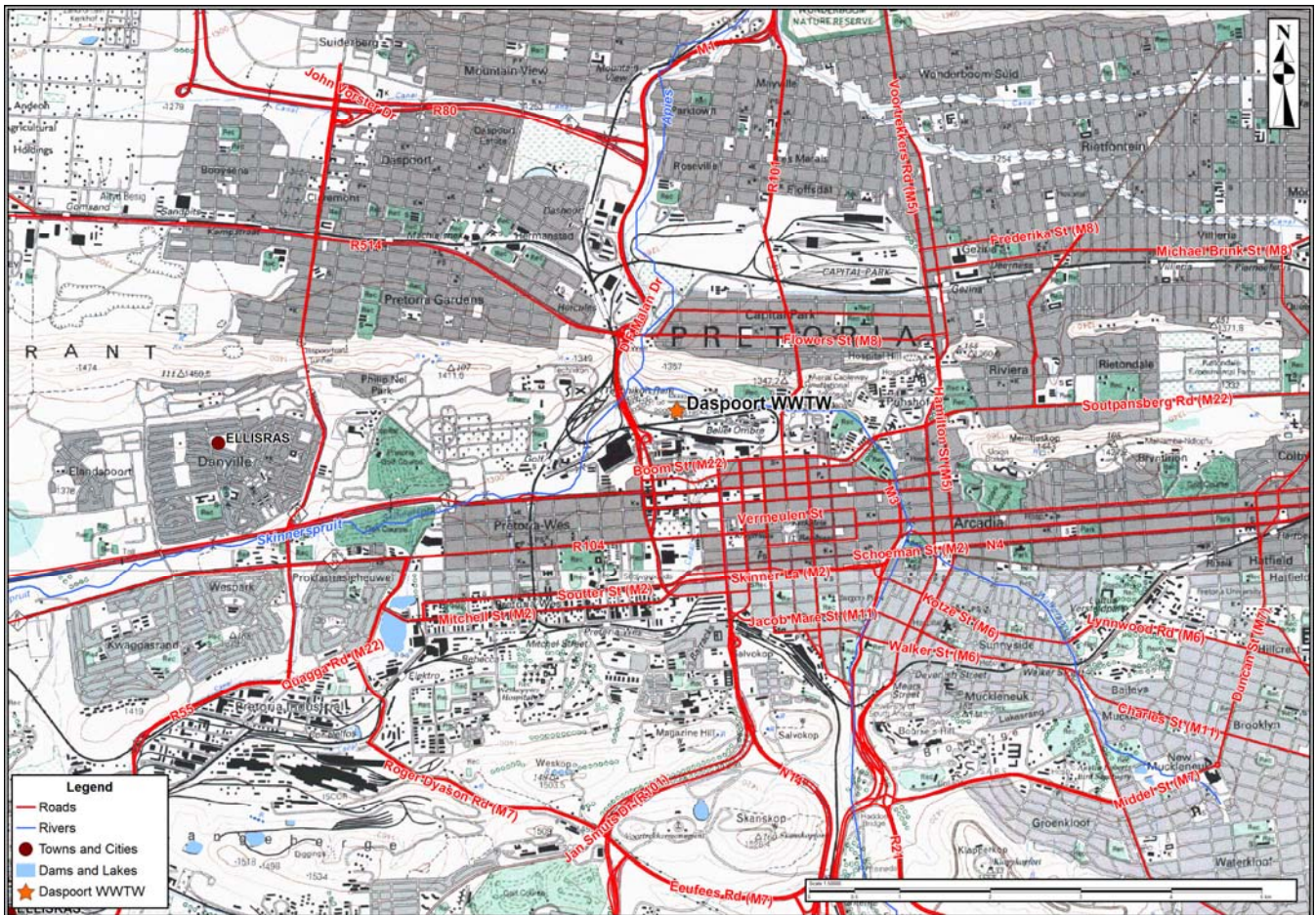


Figure 1: Locality of the Daspoort WWTW.

A feasibility study undertaken in September 2009 by SRK Consulting determined that a significant portion of the Daspoort WWTW is situated within the 1:50 and 1:100 year floodlines. The feasibility study was completed in three phases. During the first phase the flood lines were determined. During the second and the third phases flood remedial works were identified that could be constructed to protect the infrastructure against flooding and subsequent erosion of the Apies River and Skinnerspruit water courses.

The objective of the flood control measures will be to reduce to the flooding risk to acceptable levels.

The flood control measures may include but will not necessarily be limited to the following:

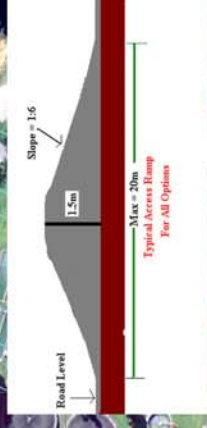
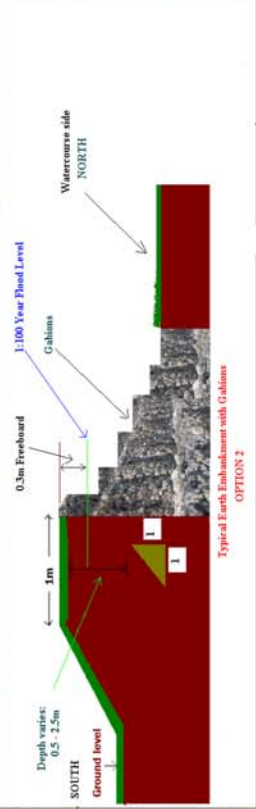
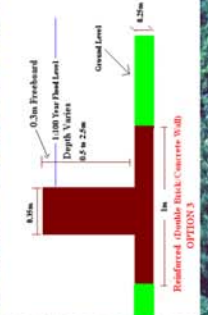
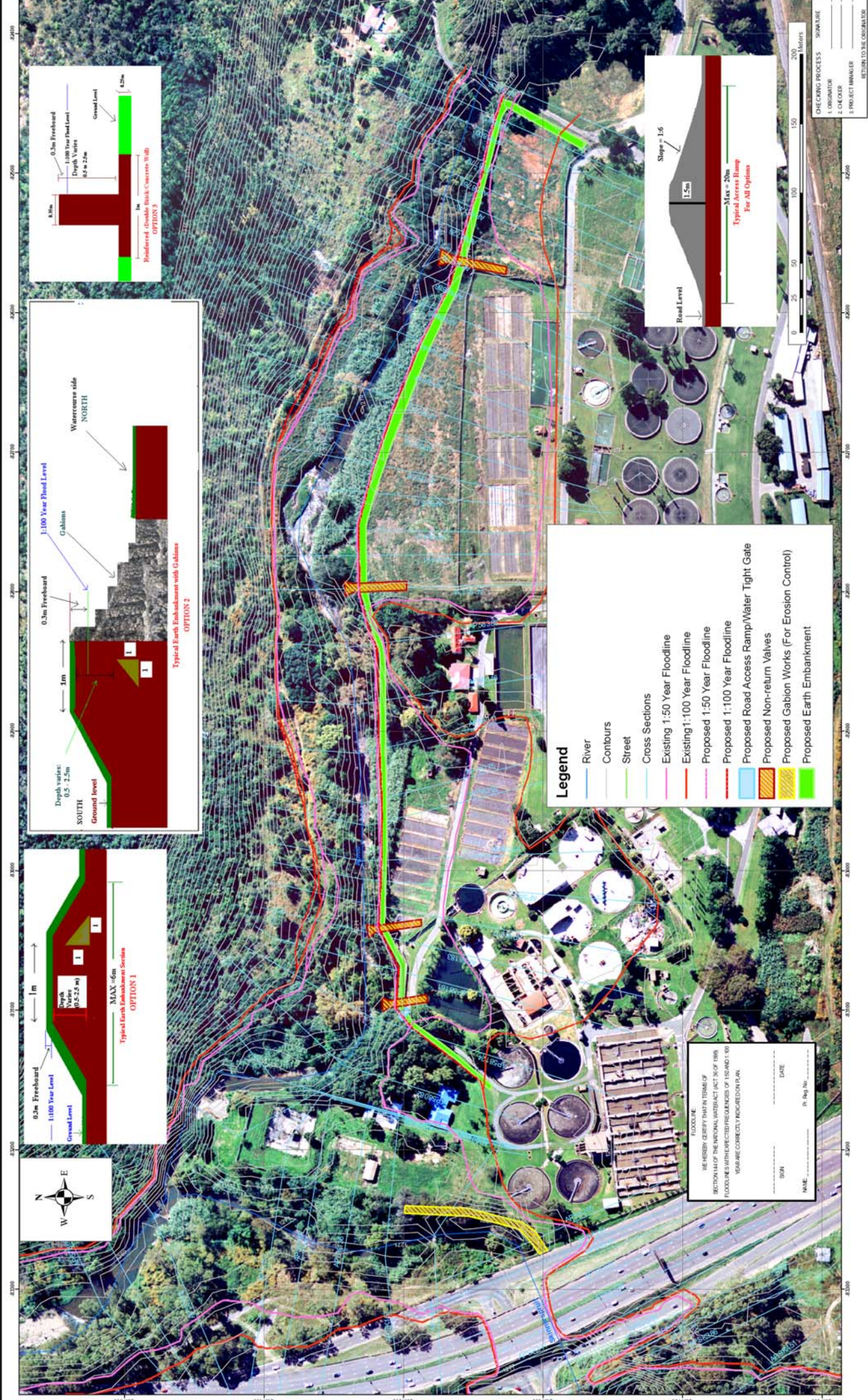
- Gabions to prevent further erosion of the river banks in the Skinnerspruit and the Apies River,
- An earth embankment,
- Non return valves,
- Desilting of the Apies River and the Skinnerspruit, and
- Reparations to the bridge that provides access to the Tshwane staff village.

ENVIRONMENTAL AUTHORISATIONS

The construction of the proposed flood remedial works at the Daspoort WWTW requires an Environmental Authorisation from the Gauteng Department of Agriculture and Rural Development (GDARD) and a Water Use Licence from the Department of Water Affairs (DWA).

The proposed project triggers the following listed activities in terms of the EIA Regulations 2010:

- Section 11 of Regulation 544: The construction of infrastructure covering 50 square meters or more where such construction occurs within a watercourse or within 32 m of a watercourse
- Section 18 of Regulation 544: The infilling or depositing of any material of more than 5 cubic meters into a watercourse
- Section 16 of Regulation 546: The construction of infrastructure covering 10 square metres or more where such construction occurs within a water course or within 32 metres of a watercourse in Gauteng at sites identified as irreplaceable or important in the Gauteng Conservation Plan.



- Legend**
- River
 - Contours
 - Street
 - Cross Sections
 - Existing 1:50 Year Floodline
 - Existing 1:100 Year Floodline
 - Proposed 1:50 Year Floodline
 - Proposed 1:100 Year Floodline
 - Proposed Road Access Ramp/Water Tight Gate
 - Proposed Non-return Valves
 - Proposed Gabion Works (For Erosion Control)
 - Proposed Earth Embankment

I, **_____** ENGINEER
HEREBY CERTIFY THAT IN TERMS OF SECTION 14(1) OF THE NATIONAL WATER ACT 36 OF 1956, I AM A REGISTERED PROFESSIONAL ENGINEER IN THE REPUBLIC OF SOUTH AFRICA.
I AM NOT PROVIDING ANY SERVICES TO THE CLIENT UNDER THIS DRAWING.
I AM NOT PROVIDING ANY SERVICES TO THE CLIENT UNDER THIS DRAWING.
I AM NOT PROVIDING ANY SERVICES TO THE CLIENT UNDER THIS DRAWING.

DATE: _____
SIGN: _____
NAME: _____ P. Reg. No. _____

REV	DR	CH	DATE	REVISIONS

DRAWING NUMBER	DRAWING DESCRIPTION

DATE	CHECKED
DESIGNED	NETS
DRAWN	NETS
SCALE	1:1,250
PROJECT NUMBER	11225MP

DESIGNED	CHECKED	DATE	DATE

CHECKING PROCESS	SIGNATURE	DATE
1. ORIGINATOR		
2. CHECKER		
3. PROJECT MANAGER		

RETURN TO THE ORIGINATOR

TITLE:
TSHWANE PART 2 FMP
SEWAGE WORKS FEASIBILITY STUDY &
FLOOD REMEDIAL MEASURES

CLIENT:
CITY OF TSHWANE METROPOLITAN MUNICIPALITY

NOTES:

1. All drawings are subject to the client's approval and shall be used for the purpose intended only. No liability shall be accepted for any other use.

2. The client is responsible for the accuracy of the data provided to the consultant.

3. The consultant is not responsible for the accuracy of the data provided to the consultant.

4. The consultant is not responsible for the accuracy of the data provided to the consultant.

REFERENCE DRAWINGS

DRAWING NUMBER	DRAWING DESCRIPTION

DATE: 2024/07/10
PROJECT NUMBER: 11225MP

SRK Consulting
Engineers and Scientists

PO Box 55200
10158 Johannesburg
0201 Paulshof
011 534 5000
Tel: +27 (0)11 235 3600
Fax: +27 (0)11 231 9621
www.srk.co.za
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10158 Johannesburg
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011 534 5000
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Fax: +27 (0)11 231 9621
www.srk.co.za
www.srk.com

THE BASIC ASSESSMENT APPROACH

In terms of the EIA Regulations 2010, the Basic Assessment Process needs to be followed and this will include:

- Motivation for the construction of the flood remedial works,
- A draft Environmental Management Programme, and
- A Public Participation Process

A Basic Assessment Report (BAR) will be drafted in terms of the Environmental Impact Assessment Regulations (GN 543 of 2010) promulgated in terms of Section 24 (5) of NEMA and will include:

- Activity information,
- Description of the site and surrounding area,
- Public Participation, and
- Quantification of impacts associated with the activity.

THE PUBLIC PARTICIPATION PROCESS

The public participation process will be conducted by ILISO Consulting in accordance with Chapter 6 of the EIA Regulations, 2010.

In order to ensure that your concerns are considered during the basic assessment process you are invited to register as an interested and affected party by completing the attached registration form and submitting it to Ms Carol Hooghiemstra (details provided below) within **14 days** of receipt of this Background Information Document.

All issues and comments received during the public participation process will be captured in an Issues and Response Report. This report will be updated as the project commences and will form an appendix to the BAR and will be submitted to GDARD for authorisation.

The Basic Assessment Report will be made available at the to all stakeholders who have registered as an IAP.

For further information please contact:

ILISO Consulting

Carol Hooghiemstra

Tel: 086 124 5476

Fax: 012 665 1886

Email: carol@iliso.com

THE WATER USE LICENCE APPLICATION

The proposed activity also requires a Water Use Licence in terms of Section 21 of the National Water Act 1998 (Act 36 of 1998) for the following water uses:

- S 21 (c) impeding or diverting of the flow of water in a water course, and
- S 21 (i) the altering of beds, banks course or characteristics of a water course.

The technical report will address but will not be limited to the following:

- The project description
- Status of the environment
- Impact on the water environment
- Mitigation measures to prevent, minimise or rehabilitate the impact on the surrounding environment.

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& WATER USE LICENCE
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WATER TREATMENT WORKS NEXT TO THE APIES RIVER/
SKINNERSPRUIT CONFLUENCE
Gaut: 002/11-12/E0296**

BACKGROUND INFORMATION DOCUMENT

Please complete and return to Carol Hooghiemstra at ILISO Consulting (Pty) Ltd by **30 June 2012**:

PO Box 6873
Highveld
0169

Tel: 086 124 5476
Fax: 012 665 1886
E-mail: carol@iliso.com

Title		First Name	
Initials		Surname	
Organisation			
Postal Address		Postal Code	
Street Address			
Tel Number		Fax Number	
Cell Number			
E-mail			

Comments: (You may use a separate sheet if necessary)

The following issues must be considered during this variation application.

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Please add the following individual(s) to your mailing list.

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We thank you for you participation!