ANNEX

FORMAT FOR THE PRESENTATION OF THE RESULT OF DELIBERATE RELEASE INTO THE ENVIRONMENT OF GENETICALLY MODIFIED HIGHER PLANTS IN ACCORDANCE WITH ARTICLE 10 OF DIRECTIVE 2001/18/EC

LOGO OF THE COMPANY OR RESEARCH INSTITUTE (OPTIONAL)

The report format shall be completed by the notifier.

The notifier shall fill in the report format according to the proposed form (tick boxes and/or, as far as possible, specific keywords to use in text fields).

The notifier shall illustrate as much as possible the reported data by means of diagrams, figures and tables. Statistical data could also be provided where relevant.

In the case of multi-sites, multi-events and/or multi-annual release(s), the notifier shall provide a <u>general overview</u> of the measures taken and effects observed for the full duration of the consent.

The space provided after each item is not indicative of the depth of the information required for the purposes of this report.

1.	General information					
1.1.	European notification number: B/XX/YY/ZZ No. B/IE/12/01 - G0469-01 Decision					
1.2.	Member State of notification: Ireland					
1.3.	Date of consent and consent number: No. B/IE/12/01 - G0469-01 Decision					
2.	Report status					
2.1.	Please indicate whether, according to	o Article 3 of the present	t Decision, the current repor	rt is:		
X the	e final report					
— а р	ost-release monitoring report					
_	o final o intermediary					
3.	Characteristics of the release					
3.1.	Scientific name of the recipient organism: Solanum tuberosum					
3.2.	Transformation event(s) (acronym(s	s)) or vectors (1) used (if t	ransformation event identit	y not available):pBINAV	/2	
3.3.	Unique identifier, if available:	BINAW2:Rpi-vr	nt1-1			
3.4.	Please provide the following inform					
	graphical location(s) (administrative region and, where appropriate, grid reference)	Size of the release site(s) (¹) (m²)	Identity (²) and approximate number of GM higher plants per event actually released (number of seeds/plants per m²)	Duration of the release(s) (from(day/month/year) until(d/m/y))		
Te	agasc Research	10,000	15,552 over	01.05.2012		
Ce	entre, Oak Park,	,	3 years	to		

Carlow, Ireland

52 51' 12" N latitude

31.10.2015

⁽¹) Sec 55 to \$25 to \$45 to \$4

⁽¹⁾ In the case of small-scale field trials where several lines may be tested, the vectors used should be mentioned, which gives insight into the introduced traits and/or genetic elements. In the case of large(r)-scale trials, the number of events notified is limited to only one or a few events.

Does the notifier intend to notify the released transformation event(s) as product(s) for placing on the market under

4.	Anv kind	of product t	hat the notifie	r intends to n	otifv at a la	ter stage

Coi	nmunity legislation(s) at a later sta	ge!
□ Yes	X No	☐ Unknown to date
If yes, indic	ate the country(ies) of notification:	
If yes, speci	fy for which use(s):	
— Import		
— Cultiva	tion (e.g. seed/planting material produ	action)
— Food		
— Feed		
— Pharma	ceutical use (or processing for pharm	aceutical use)
— Process	ing for	
— Foo	d use	
— Feed	luse	
— Ind	istrial use	
— Others	(specify):	
Please selec	ase(s), please provide a general overv	as subtype(s) of the release(s). In the case of multi-sites, multi-events and/or multi- riew of the type(s) of deliberate release(s) which has/have been carried out for the full
duration of	the consent. Please tick the appropria	ate type(s):
5.1. De l	iberate release(s) for research purp	poses
5.2. Del	iberate release(s) for development	purposes
— Event se	creening	
	f concept (²)	
— Agrono	mic performances (e.g. efficiency/s	electivity of plant protection product, yield capacity, germination capacity, crop ceptibility to climatic factors/diseases, etc.) (specify)
— Altered	agronomic properties (e.g. disease/pe	est/drought/frost-resistance, etc.) (specify)
— Altered	qualitative properties (prolonged she	lf-life, enhanced nutritional value, modified composition, etc.) (specify)
— Stabilit	of the expression	
— Multipl	ication of lines	
— Hybrid	vigour study	
— Molecu	lar farming (³)	
— Phyto-r	emediation	
— Others:		(describe)
5.3. Off	icial testing	
— Variety	registration on a national variety cata	logue
— DU	S (= D istinctness, U niformity and S ta	bility)
— VCI	J (= Value of Cultivation and Use)	
— Others:	(specify)	

⁽²⁾ For example, testing the new trait under environmental conditions.
(3) 'Molecular farming' means the production of substances (for instance, proteins, pharmaceuticals) by plants, which have been genetically modified for a particular trait. 'Molecular farming' could be defined as well as the production of plant-synthesised pharmaceuticals, plant-made pharmaceuticals, plant-based proteins production, etc.

5.4.	Herbicide authorisation	
5.5.	Deliberate release(s) for demonstration purposes	0
5.6.	Seeds multiplication	
5.7.	Deliberate release(s) for biosafety/risk assessment research	7
— Ve	ertical gene transfer studies	•
_	- Out-crossing with conventional crops	
_	- Out-crossing with wild relatives	
— н	orizontal gene transfer studies (gene transfer to micro-organisms)	
— M	lanagement of volunteers	
— Po	otential changes in persistence or dispersal	
— Po	otential invasiveness	
X Pc	otential effects on target organisms	
X Po	otential effects on non-target organisms	
— O	bservation of resistant relatives	
— O	bservations of resistant insects	
— o	thers: (describe)	
5.8.	Other(s) type(s) of deliberate release(s):	
(descr	ribe)	
6.	Method(s), result(s) of the release, management and monitoring measure(s) in respect of any risk to human health or environment	the
6.1.	Risk management measure(s)	
	e report the risk-management measures, which have been used to avoid or minimise the spread of the GMO(s) outside the si ease, and in particular those measures	te(s)
— w.	hich were not originally notified in the application,	
— w	hich were applied in addition to the conditions in the consent,	
— w.	hich the consent required only under certain conditions (e.g. dry periods, flooding),	
— fo	or which the consent allowed the notifier a choice among different measures.	
Tick t	the examples where appropriate:	
6.1.1.	. Before the sowing/planting:	
-X Cl	lear labelling of the GM seeds/planting material lots (distinct from other seeds/tubers/etc.) (describe)	
	egregation during the processing and transport of the seed/planting material (describe the method involved; provide examp f containment to prevent spillage during the processing and transport)	le(s)
X D	estruction of superfluous seeds/planting material (describe the method involved)	
— Те	emporal isolation (specify)	
— R	otation (specify the previous crop(s))	
— O	ther(s): (specify)	
6.1.2.	. During the sowing/planting activities:	
— М	lethod of sowing/planting	
X Er	mptying and cleaning of the sowing/planting machinery on the field of release	
X Se	egregation during the sowing/planting (provide example(s) of containment to prevent spillage during the sowing/planting)	

- Other(s): (specify) ...no material was left over post-sowing as all GM tubers/plantlets were planted/

destroyed by steaming under contained conditions. In addition, seed lots for each plot were individually barcoded for identification/verification purposes

6.1.3. During the period of release:
X Isolation distance(s) (x metres) 40 m
— from sexually compatible commercial plant species,
— from sexually compatible wild relatives.
— Border row(s) (with the same crop or a different one, with a non-transgenic crop, x metres, etc.)
★ Cage/net/fence/signpost (specify)
— Pollen trap (specify)
— Removal of GM inflorescences before flowering (indicate the frequency of the removal)
— Removal of bolters/relatives/hybrid partners (indicate the frequency of the removal, x metres around the GM field, etc.)
— Other(s): (specify):
6.1.4. At the end of the release:
+X Harvest/destruction methods (of crop or parts of it)/other means (e.g. sampling and analysis of sugar beet pulp) (describe)
— Harvest/destruction before the ripeness of the seeds
— Effective removal of plant parts
-X Segregated storage and transport of crop/waste (provide example(s) of containment to prevent spillage of collected seeds/crops/wastes)
X Clean up of machinery on the release site
— Destination of the waste, treatment of waste/surplus yield/plant residues (describe)
X Post-harvest treatment and cultivation measures on the release site (describe the method(s) for preparing and managing the release site at the end of the release, including cultivation practices) See appendix for expanded answer Other(s): (describe):
6.1.5. Post-harvest measures
Please indicate which measures were taken on the release site after the harvest:
Frequency of visits (average): Once per month
X Subsequent crop (specify) ryegrass until 2020
— Crop rotation (specify)
— Fallow/no crop (specify)
— Superficial soil work/no deep ploughing
— False-sowing beds
X Control of volunteers (specify intervals and duration) achieved by forth-nightly topping of grass crop
— Appropriate chemical treatment(s) (specify)
— Appropriate soil treatment(s) (specify)
— Others (specify)
6.1.6. Other(s) measure(s): (describe):
6.1.7. Emergency plan(s)
Indicate:
(a) if the release proceeded as planned:
-X Yes
— No (describe for which reason, e.g. vandalism, climatic conditions, etc.):
(b) if measures according to the emergency plan(s) (Article 6(2)(a)(vi) and Annex III.B of Directive 2001/18/EC) had to be taken: -X No
— Vac (dascriba)

6.2. Post-release monitoring measures

Due to the fact that the current report format can be used for the final and post-release monitoring report(s), the notifier is asked to clearly make the difference between both types of report through this section 2 of Chapter 6. Please indicate whether

- the post-release monitoring plan will start (in the case of a final report, after the last harvest of the GM higher plants),
- X the post-release monitoring plan is ongoing (in the case of an intermediary post-release monitoring report),
- the post-release monitoring plan has been completed (in the case of the final post-release monitoring report),
- no post-release monitoring plan has to be fulfilled.

The results of this monitoring are meant to confirm or invalidate earlier assumptions in the risk assessment.

According to the aforementioned cases, please indicate which monitoring measure(s) will be/are/were taken and where (on the release site/near the site (e.g. on fields edges)). Please be aware that all post-release monitoring measures taken during the whole post-release period shall be indicated here.

Specify:

- Monitoring measures within site

Duration: out to 2020

Frequency of visits (average): once per month

- Observation of resistant relatives
- Observation of resistant insects
- Control of volunteers (specify intervals and duration)
- ** Monitoring of gene flow (specify) seed mediated gene flow through volunteer emergence
- Appropriate chemical treatment(s) and/or soil treatment(s) regular cutting of ryegrass crop every two weeks
- Others (specify)
- Monitoring measures of adjacent areas

Duration: out to 2020

Frequency of visits (average): once per month

Area monitored:

- Observation of resistant relatives
- Observation of resistant insects
- Control of volunteers and/or monitoring of feral populations (specify intervals and duration)
- Monitoring of gene flow (specify) seed mediated gene flow through volunteer emergence
- $\ {}^{Appropriate\ chemical\ treatment(s)\ and/or\ soil\ treatment(s)}\ \ regular\ cutting\ of\ ryegrass\ crop\ every\ two\ weeks$
- Others (specify)

6.3. Plan for observation(s)/method(s) involved

In this section the observation plan and the methods used to collect the effects, which have to be reported under the next section (section 6.4), need to be specified. Any amendments or modifications to the plan as proposed in the application and the SNIF (*) part B need to be specified in detail. (see appendix for comment)

During the time between the notification and the final report submission, new scientific insights or methods may be developed which cause a change in the methods used. In particular these modifications need to be specified under this section.

6.4. Observed effect(s)

6.4.1. Explanatory note

All results of the deliberate release(s) in respect of any risk for human health or the environment shall be stated, without prejudice to whether the results indicate that any risk is increased, reduced or remains unchanged.

The main objectives of the information given in this section are:

- —X to confirm or invalidate any assumption regarding the occurrence and impact of potential effect(s) of the GMO(s) which was/were identified in the environmental risk assessment,
- to identify effect(s) of the GMO(s) which was/were not anticipated in the environmental risk assessment.

⁽⁴⁾ Summary notification information format (= SNIF).

The observed **effect(s)/interaction(s)** of the GMO(s)

- with respect to any risk to human health,

X with respect to any risk to the environment

shall be reported under this section.

Particular attention shall be drawn to unexpected and unintended effect(s).

Indications as regards the effects, that the notifier may have to report, are provided hereunder. The effects have obviously to be considered in the light of the crop, the new trait, the receiving environment as well as the conclusions of the environmental risk assessment, which is carried out on a case-by-case basis.

In order to structure the information and to facilitate an efficient search within the given information, the notifier shall use, as far as possible, specific keywords to fill in the text fields under Chapter 6, especially sections 6.4.2, 6.4.3 and 6.4.4. A most updated list of those specific keywords is available on the Internet at http://gmoinfo.jrc.it

6.4.2. Expected effect(s)

This section concerns 'Expected effects', that is to say, potential effects which were already identified in the environmental risk assessment of the notification and could therefore be anticipated.

Notifiers should supply data from the deliberate release(s) which validate the assumptions made in the environmental risk assessment.

6.4.3. Unexpected effect(s) (5)

'Unexpected effects' refer to effects on human health or the environment, which were not foreseen or identified in the environmental risk assessment of the notification. This part of the report should contain any information with regard to unexpected effects or observations relevant for the initial environmental risk assessment. In case of any observed unexpected effects or observations, this section should be as detailed as possible to allow a proper interpretation of the data.

6.4.4. Other information

Notifiers are encouraged to supply information, which is outside the scope of the notification but which might be relevant to the field trials in question. This may also include observations of beneficial effects.

7. Conclusion

In this chapter, the notifier should specify the conclusions drawn and the measures taken or to be taken on the basis of the results of the release with regard to further release(s) and, where appropriate, make reference to any kind of product the notifier intends to notify at a later stage.

The information provided in this report is not considered confidential in accordance with Article 25 of Directive 2001/18/EC.

This does not prevent the competent authority from requiring additional information from the notifier, both confidential and non-confidential.

In the case of confidential data, it should be provided in an Annex to the report format, with a non-confidential summary or general description of these data, which will be made available to the public.

DATE: 01.12.2016

⁽⁵⁾ Without prejudice to Article 8 of Directive 2001/18/EC as regards handling of modifications or new information.

Appendix:

- 6.1.4 : All plots were repeat harvested (x3) to ensure the removal of all visible tubers and/or tuber pieces. Material collected during the post-harvest inspections was placed in labelled bags, removed from the site and steam sterilised for a minimum of 16 hours after which manual inspection confirmed destruction before material was removed for composting. The composting cycle is for a minimum of 10 months.
- 6.3: Trial site visited once monthly to check for the growth of volunteers on plots from previous years
- 6.4.1: Over the 3 year duration of this EPA licensed trial the non-cisgenic potato cultivar (Desiree) succumbed to late blight disease while the engineered cisgenic Desiree cultivar did not.
- 6.4.2: No unexpected results were observed.

Conclusion: There was no indication of any negative impact on human health or the environment during the tenure of the project. Post-harvest, monthly inspections have been on-going and volunteer numbers are negligible following agronomic control measures. No volunteers are evident in the regions adjacent to the site.