



Gauteng Department of Agriculture and Rural Development (GDARD)

Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2010 (Version 1)

List of all organs of state and State Departments where the draft report has been submitted, their full contact details and contact person

Kindly note that:

1. This **Basic Assessment Report** is the standard report required by GDARD in terms of the EIA Regulations, 2010.
 2. This application form is current as of 2 August 2010. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
 3. **A draft Basic Assessment Report must be submitted to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken. The draft reports must be submitted to the relevant State Departments and on the same day, two CD's of draft reports must also be submitted to the Competent Authority (GDARD) with a signed proof of such submission of draft report to the relevant State Departments.**
 4. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
 5. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
 6. An incomplete report shall be rejected.
 7. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
 8. Five (5) copies (3 hard copies and 2 CDs-PDF) of the final report and attachments must be handed in at offices of the relevant competent authority, as detailed below.
 9. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.
 10. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
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DEPARTMENTAL DETAILS

Gauteng Department of Agriculture and Rural Development
Attention: Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch
P.O. Box 8769
Johannesburg
2000

Administrative Unit of the Sustainable Utilisation of the Environment (SUE) Branch
18th floor Glen Cairn Building
73 Market Street, Johannesburg

Admin Unit telephone number: (011) 355 1345
Department central telephone number: (011) 355 1900

BASIC ASSESSMENT REPORT [REGULATION 22(1)]

(For official use only)

File Reference Number:	Gaut: 002/12-13/E0210					
Application Number:						
Date Received:						

*** Submission to State Departments (Number 3 above)**

Has a draft report for this application been submitted to all State Departments administering a law relating to a matter likely to be affected as a result of this activity? **No**

Is a list of State Departments referred to above been attached to this report?

if no, state reasons for not attaching the list.

Not appropriate

SECTION A: ACTIVITY INFORMATION

1. ACTIVITY DESCRIPTION

Project title (must be the same name as per application form):

Installation of the additional 60% Nitric acid storage facilities.

Select the appropriate box

The application is for an upgrade of an existing development The application is for a new development Other, specify

Does the activity also require any authorisation other than NEMA EIA authorisation?

NO

If yes, describe the legislation and the Competent Authority administering such legislation

If yes, have you applied for the authorisation(s)? **NO**

If yes, have you received approval(s)? (attach in appropriate appendix) **NO**

2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations:

Title of legislation, policy or guideline:	Administering authority:	Promulgation Date:
National Environmental Management Act No. 107 of 1998 as amended.	National & Provincial	27 November 1998
Environmental Impact Assessment Regulation 2010	National & Provincial	18 June 2010
OHS Act 85 of 1993	National	23 June 1993 Revised on December 2009

3. ALTERNATIVES

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment.

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. **Do not** include the no go option into the alternative table below.

Note: After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, operational or other(provide details of "other")	Description
1	Proposal-adjacent to the existing of storage tanks	Installation of the additional 60% Nitric acid storage facilities
2	Alternative - 1 (process alternative)	No alternative site. But Ammonium Nitrate solution (ANS) production alternative.
3	Alternative - No go	Don't install - Risk of product stock outage.

In the event that no alternative(s) has/have been provided, a motivation must be included in the table below.

Note : This is additional to the existing 3 tanks and as such alternatives of location are not feasible.

NOTE: The numbering in the above table must be consistently applied throughout the application report and process

4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc), impermeable surfaces and landscaped areas:

Proposed activity	Size of the activity:
	1160 m ²

Alternatives:

Alternative 1 (if any)	Estimated 1200 m ²
Alternative 2 (No go)	0

or, for linear activities:

Proposed activity	Length of the activity:
	N/A

Alternatives:

Alternative 1 (if any)	N/A
Alternative 2 (if any)	N/A

k/km

Indicate the size of the site(s) or servitudes (within which the above footprints will occur):

Proposed activity	Size of the site/servitude:
	N/A

Alternatives:

Alternative 1 (if any)	N/A
Alternative 2 (if any)	N/A

Ha/m²

5.

6. SITE ACCESS

Proposal

Does ready access to the site exist, or is access directly from an existing road?

YES	
	m

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

Existing tar road to acid and load- out bay within Modderfontein Industrial Complex.

Include the position of the access road on the site plan.

Alternative 1

Does ready access to the site exist, or is access directly from an existing road?

YES	
	0.1 km

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

Same road to be widened

Include the position of the access road on the site plan.

Alternative 2 – “No Go”

Does ready access to the site exist, or is access directly from an existing road?

YES	
	m

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

Include the position of the access road on the site plan.

PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives

Note: As all the alternative site conditions are the same only one version of the section has been completed

Section A 6-8 has been duplicated
(only complete when applicable)

1	Number of times
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7. SITE OR ROUTE PLAN

A detailed site or route (for linear activities) plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document. The site or route plans must indicate the following:

- the scale of the plan, which must be at least a scale of 1:2000 (scale can not be larger than 1:2000 i.e. scale can not be 1:2500 but could where applicable be 1:1500)
- the property boundaries and numbers of all the properties within 50m of the site;
- the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
- the exact position of each element of the application as well as any other structures on the site;
- the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, septic tanks, storm water infrastructure and telecommunication infrastructure;
- walls and fencing including details of the height and construction material;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites including (but not limited thereto):
 - Rivers and wetlands;
 - the 1:100 and 1:50 year flood line;
 - ridges;
 - cultural and historical features;
 - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- for gentle slopes the 1m contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
- the positions from where photographs of the site were taken.
- Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the 32m position from the bank to be clearly indicated)

8. SITE PHOTOGRAPHS

Colour photographs from the center of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under the appropriate Appendix. It should be supplemented with additional photographs of relevant features on the site, where applicable.

9. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 1:200 for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity. To be attached in the appropriate Appendix.

SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

Note: Complete Section B for the proposal and alternative(s) (if necessary)

Further:

Instructions for completion of Section B for linear activities

- 1) For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
- 2) Indicate on a plan(s) the different environments identified
- 3) Complete Section B for each of the above areas identified
- 4) Attach to this form in a chronological order
- 5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

Section B has been duplicated for sections of the route times

Instructions for completion of Section B for location/route alternatives

- 1) For each location/route alternative identified the entire Section B needs to be completed
- 2) Each alternative location/route needs to be clearly indicated at the top of the next page
- 3) Attach the above documents in a chronological order

Section B has been duplicated for location/route alternatives times
(complete only when appropriate)

Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application

Section B is to be completed and attachments order in the following way

- All significantly different environments identified for Alternative 1 is to be completed and attached in a chronological order; then
- All significantly different environments identified for Alternative 2 is to be completed and attached chronological order, etc.

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Section B - Section of Route (complete only when appropriate for above)

Section B – Location/route Alternative No. (complete only when appropriate for above)

1. PROPERTY DESCRIPTION

Property description: Remainder of Modderfontein 34 IR, Title deed T109381/1995
(Farm name, portion etc.)

2. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

Alternative:

Latitude (S):	Longitude (E):
26.088700°	28.172530°

In the case of linear activities:

Alternative:

- Starting point of the activity
- Middle point of the activity
- End point of the activity

Latitude (S):	Longitude (E):
N/A	N/A
N/A	N/A
N/A	N/A

For route alternatives that are longer than 500m, please provide co-ordinates taken every 250 meters along the route and attached in the appropriate Appendix

Addendum of route alternatives attached

3. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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4. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site.

Ridgeline	Plateau	Side slope of hill/ridge	Valley	Plain	Undulating plain/low hills	River front
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5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

a) Is the site located on any of the following?

Shallow water table (less than 1.5m deep)	<input type="checkbox"/> NO
Dolomite, sinkhole or doline areas	<input type="checkbox"/> NO
Seasonally wet soils (often close to water bodies)	<input type="checkbox"/> NO
Unstable rocky slopes or steep slopes with loose soil	<input type="checkbox"/> NO
Dispersive soils (soils that dissolve in water)	<input type="checkbox"/> NO
Soils with high clay content (clay fraction more than 40%)	<input type="checkbox"/> NO
Any other unstable soil or geological feature	<input type="checkbox"/> NO
An area sensitive to erosion	<input type="checkbox"/> NO

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(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

b) are any caves located on the site(s) **NO**

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):	Longitude (E):
°	°

c) are any caves located within a 300m radius of the site(s) **NO**

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):	Longitude (E):
°	°

d) are any sinkholes located within a 300m radius of the site(s) **NO**

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):	Longitude (E):
°	°

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

6. AGRICULTURE

Does the site have high potential agriculture as contemplated in the Gauteng Agricultural Potential Atlas (GAPA 3)? **NO**

Please note: The Department may request specialist input/studies in respect of the above.

7. GROUNDCOVER

To be noted that the location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Indicate the types of groundcover present on the site and include the estimated percentage found on site

Natural veld - good condition % =	Natural veld with scattered aliens % =	Natural veld with heavy alien infestation % =	Veld dominated by alien species % =	Landscaped (vegetation) % =
Sport field % =	Cultivated land % =	Paved surface (hard landscaping) % =	Building or other structure % =	Bare soil % =

Please note: The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site **NO**

If YES, specify and explain:

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Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site. **NO**

If YES, specify and explain:

--

Are there any special or sensitive habitats or other natural features present on the site? **NO**

If YES, specify and explain:

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Was a specialist consulted to assist with completing this section **NO**

If yes complete specialist details

Name of the specialist:			
Qualification(s) of the specialist:			
Postal address:			
Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

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Are any further specialist studies recommended by the specialist? **NO**

If YES, specify:

If YES, is such a report(s) attached? **NO**

If YES list the specialist reports attached below

Signature of specialist: _____ Date:

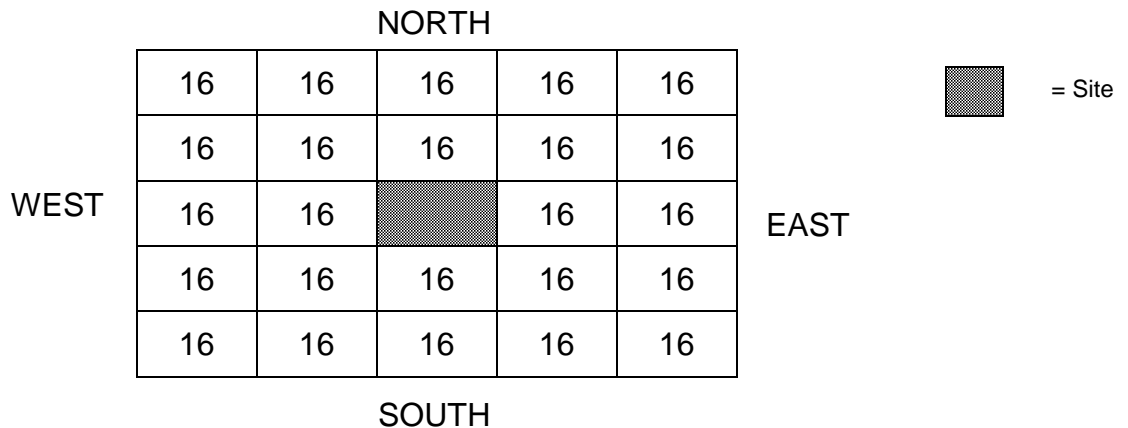
Please note: If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

1. Vacant land	2. River, stream, wetland	3. Nature conservation area	4. Public open space	5. Koppie or ridge
6. Dam or reservoir	7. Agriculture	8. Low density residential	9. Medium to high density residential	10. Informal residential
11. Old age home	12. Retail	13. Offices	14. Commercial & warehousing	15. Light industrial
16. Heavy industrial^{AN}	17. Hospitality facility	18. Church	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport ^N	23. Train station or shunting yard ^N	24. Railway line ^N	25. Major road (4 lanes or more) ^N
26. Sewage treatment plant ^A	27. Landfill or waste treatment site ^A	28. Historical building	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam ^A	34. Small Holdings	
Other land uses (describe):				

NOTE: Each block represents an area of 250m X250m



Note: More than one (1) Land-use may be indicated in a block

Please note: The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an ^A and with an ^N respectively.

Have specialist reports been attached **NO**

If yes indicate the type of reports below

N/A

9. SOCIO-ECONOMIC CONTEXT

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

The site is within the Modderfontein Industrial Complex and is occupied by chemical processing industry.

No increase in employment.

10. CULTURAL/HISTORICAL FEATURES

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-
- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
 - (b) the construction of a bridge or similar structure exceeding 50m in length;
 - (c) any development or other activity which will change the character of a site-
 - (i) exceeding 5 000 m2 in extent; or
 - (ii) involving three or more existing erven or subdivisions thereof; or
 - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
 - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
 - (d) the re-zoning of a site exceeding 10 000 m2 in extent; or
 - (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?

	NO
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If YES, explain:

Not applicable

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

Not applicable

Will any building or structure older than 60 years be affected in any way?
 Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

	NO
	NO

If yes, please attached the comments from SAHRA in the appropriate Appendix

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT

The Environmental Assessment Practitioner must follow any relevant guidelines adopted by the competent authority in respect of public participation and must at least –

- 1(a) Fix a site notice at a conspicuous place, on the boundary of a property where it is intended to undertake the activity which states that an application will be submitted to the competent authority in terms of these regulations and which provides information on the proposed nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations on the application may be made;
- 1(b) informs landowners and occupiers of adjacent land of the applicant's intention to submit an application to the competent authority;
- 1(c) inform landowners and occupiers of land within 100 metres of the boundary of the property where it is proposed to undertake the activity and whom may be directly affected by the proposed activity of the applicant's intention to submit an application to the competent authority;
- 1(d) inform the ward councillor and any organisation that represents the community in the area of the applicant's intention to submit an application to the competent authority;
- 1(e) inform the municipality which has jurisdiction over the area in which the proposed activity will be undertaken of the applicant's intention to submit an application to the competent authority; and
- 1(f) inform any organ of state that may have jurisdiction over any aspect of the activity of the applicant's intention to submit an application to the competent authority; and
- 1(g) place an advertisement in one local newspaper and any *Gazette* that is published specifically for the purpose of providing notice to the public of applications made in terms of these regulations.

2. LOCAL AUTHORITY PARTICIPATION

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least thirty (30) calendar days before the submission of the application to the competent authority (GDARD).

Has any comment been received from the local authority? YES NO
 If "YES", briefly describe the comment below (also attach any correspondence to and from the local authority to this application):

If "NO" briefly explain why no comments have been received

Johannesburg ward Councillor has requested to be kept informed. No response from City of Johannesburg officials – Lack of concern.

3. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the activity, site or property, such as servitude holders and service providers, should be informed of the application at least thirty (30) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders? YES NO
 If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

If "NO" briefly explain why no comments have been received

Not applicable

4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS

The Environmental Assessment Practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

The practitioner must record all comments and respond to each comment of the public / interested and affected party before the application is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

5. APPENDICES FOR PUBLIC PARTICIPATION

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below

Appendix 1 – Proof of site notice

Appendix 2 – Written notices issued to those persons detailed in 1(b) to 1(f) above

Appendix 3 – Proof of newspaper advertisements

Appendix 4 – Communications to and from persons detailed in Point 2 and 3 above

Appendix 5 – Minutes of any public and/or stakeholder meetings

Appendix 6 - Comments and Responses Report

Appendix 7 –Comments from I&APs on Basic Assessment (BA) Report

Appendix 8 –Comments from I&APs on amendments to the BA Report

Appendix 9 – Copy of the register of I&APs

Appendix 10 – Comments from I&APs on the application

Appendix 11 - Other

SECTION D: RESOURCE USE AND PROCESS DETAILS

Note: Section D is to be completed for the proposal and alternative(s) (if necessary)

Instructions for completion of Section D for alternatives

- 1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed
- 4) Each alternative needs to be clearly indicated in the box below
- 5) Attach the above documents in a chronological order

Section D has been duplicated for alternatives Times
(complete only when appropriate)

Section D Alternative No. (complete only when appropriate for above)

1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

YES	
-----	--

If yes, what estimated quantity will be produced per month?

	5m ³
--	-----------------

How will the construction solid waste be disposed of (describe)?

Minor concrete rubble will go to the site 11m³ Waste skip

Where will the construction solid waste be disposed of (describe)?

AEL – Interwaste

Will the activity produce solid waste during its operational phase?

	NO
--	----

If yes, what estimated quantity will be produced per month?

	Very low m ³
--	-------------------------

How will the solid waste be disposed of (describe)?

AEL-Interwaste

Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/disposing of the solid waste to be generated by this activity?

	NO
--	----

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

Not applicable

Note: If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

	NO
--	----

If yes, inform the competent authority and request a change to an application for scoping and EIA.
Is the activity that is being applied for a solid waste handling or treatment facility?

	NO
--	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials:

Not applicable

Liquid effluent (other than domestic sewage)

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

	NO
--	----

If yes, what estimated quantity will be produced per month?

	m ³
--	----------------

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity(ies)?

	NO
--	----

Will the activity produce any effluent that will be treated and/or disposed of on site?

Yes	
-----	--

If yes, what estimated quantity will be produced per month?

	0.5m ³
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If yes describe the nature of the effluent and how it will be disposed.

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Any effluent collected in the new bund area will be assessed to determine if it is acidic (effluent Containing nitrates from the Nitric Acid) or only Stormwater.

1. **If Acidic, the effluent will be sent to Sump 10 for recycle to the effluent lagoons or for use in fertilizers**
2. **If Stormwater, this will be directed to stormwater system**

See appendix C2

Note that if effluent is to be treated or disposed on site the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA

Will the activity produce effluent that will be treated and/or disposed of at another facility?

	NO
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If yes, provide the particulars of the facility:

Facility name:	N/A	
Contact person:		
Postal address:		
Postal code:		
Telephone:		Cell:
E-mail:		Fax:

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

Use in low grade nitrate liquid fertilizer.

Liquid effluent (domestic sewage)

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system?

	NO
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If yes, what estimated quantity will be produced per month?

	m³
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If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity(ies)?

	NO
--	-----------

Will the activity produce any effluent that will be treated and/or disposed of on site?

YES	
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If yes describe how it will be treated and disposed off.

No staff increase therefore no change to existing ablution facilities

Emissions into the atmosphere

Will the activity release emissions into the atmosphere?

	NO
--	-----------

If yes, is it controlled by any legislation of any sphere of government?

	NO
--	-----------

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

Potential very low release of fumes

2. WATER USE

Indicate the source(s) of water that will be used for the activity

Municipal	Directly from water board	groundwater	river, stream, dam or lake	other	the activity will not use water
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If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

N/A liters

If Yes, please attach proof of assurance of water supply, e.g. yield of borehole, in the appropriate Appendix

Does the activity require a water use permit from the Department of Water Affairs?

	NO
--	-----------

If yes, list the permits required

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If yes, have you applied for the water use permit(s)?

	N/A
--	------------

If yes, have you received approval(s)? (attached in appropriate appendix)

	N/A
--	------------

3. POWER SUPPLY

Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source

Johannesburg City Power

If power supply is not available, where will power be sourced from?

Not applicable

4. ENERGY EFFICIENCY

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

No additional energy systems needed.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Not applicable

SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2006, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

The I&AP's have made no significant comment.

Summary of response from the practitioner to the issues raised by the interested and affected parties
(A full response must be provided in the Comments and Response Report that must be attached to this report):

The proposed installation is within the existing Nitric Acid storage and as such it is not perceived to be an additional environmental impact

2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

Briefly describe the methodology utilised in the rating of significance of impacts

See attached appendix I.11 Other

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

Proposal

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Construction phase			
Traffic	Low	Unlikely to be an issue-Low traffic frequency	Very low
Operational phase			
Liquid spill leading to pollution.	Low	Bunding the area properly and effluent treatment. The bund will have a sump and drainage pump connecting to the site effluent control system.	Very low
Fumes No _x	Very Low	Control pump rate	Not significant

Alternative 1- Producing & storing ANS

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Construction phase			
Traffic	Low	Unlikely to be an issue-Low traffic frequency	Very low
Operational phase			
Limited capacity on ANS site - Would increase ANS supply but insufficiently and complicate safety of operations.	Medium	Hold the Nitrate in the form of Nitric acid.	Low
		Build extended ANS storage – new site.	Very high - negative

BASIC ASSESSMENT REPORT [REGULATION 22(1)]

Alternative 2- No go

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Construction phase			
Nil			
Operational phase			
Economic loss	High	Build new Nitric Acid tanks	Low
Overloading of existing production facility - damage	High	Build new Nitric Acid tanks	Low

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

Not applicable

3. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

Proposal

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Acidic soil (legacy of spillages)	Med	Decontamination	Low
Rubble (Concrete etc)	Low	Land fill	Very low
Work steel (Very limited amount)	Low	Decontamination & sale	Very low

Alternative 1

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Sodic soil	Med	Decontamination	Low
Rubble (Concrete etc)	Low	Land fill	Very low
Work steel (Very limited amount)	Low	Decontamination & sale	Very low

Alternative 2- No go

Potential impacts:	Significance rating of impacts:	Proposed mitigation:	Significance rating of impacts after mitigation:
Not applicable			

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

Not applicable

4. CUMULATIVE IMPACTS

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

Not significant – The increase in nitric acid volume will have little effect on environmental issues. Management will not need to change from the present system.

5. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposal and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Proposal

The proposal is to install the additional 2x1500 tons Nitric Acid tanks. These will be constructed alongside the existing nitric acid tanks and the complex will be bunded.

This system will not be responsible for any damage to the environment as the area's footprint is already concreted and with an existing effluent disposal system. The addition of a bunding system incorporating the whole tank farm will improve the spillage control considerably.

Alternative 1-ANS production & storage

Limited capacity – high risk of spillages

Alternative 2- No go

Potential overflow and spillage at existing facilities with acid pollution damaging the environment

Limit AEL's economic ability to meet clients needs

6. IMPACT SUMMARY OF THE PROPOSAL OR PREFERRED ALTERNATIVE

Proposal:

The proposed additional tanks will not contribute any additional risk to the environment because there are existing tanks already on the site and the area has an effluent management system which will be upgraded by incorporating the entire storage system in a bund.

Having assessed the significance of impacts of the proposal and alternative(s), please provide an overall summary and reasons for selecting the proposal or preferred alternative.

The additional tanks of nitric acid will enable better stock control of the nitric acid minimizing the stock outs which have occurred in the past.

The new tanks will not change the general operating practices and will improve the management of any spillage by the inclusion of a total storage bund for all the nitric acid tanks. It will not change the current environmental situation negatively but rather improve it.

7. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the Environmental Assessment Practitioner).

YES	
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If "NO", indicate the aspects that require further assessment before a decision can be made (list the aspects that require further assessment):

Not applicable

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

Upgrade bunded area to handle the 110% of the biggest tank and ensure proper spillage / effluent management

8. ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)

If the EAP answers yes to Point 7 above then an EMP is to be attached to this report as an Appendix

EMPr attached

YES

SECTION F: APPENDIXES

The following appendixes must be attached as appropriate:

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix A: Site plan(s)

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Route position information

Appendix E: Public participation information

Appendix F: Water use license(s) authorisation, SAHRA information, service letters from municipalities, water supply information

Appendix G: Specialist reports

Appendix H: EMPr

Appendix I: Other information

CHECKLIST

To ensure that all information that the Department needs to be able to process this application, please check that:

- Where requested, supporting documentation has been attached;
- All relevant sections of the form have been completed; and

Appendices

A	<p>Site plan(s)</p> <p>A1. Location A2. Site Plan A3. Agricultural Potential Map</p>	
B	<p>Photographs</p> <p>B1. 360° Panorama (B2. Tanks features (relative position / Side view etc)</p>	
C	<p>Facility illustration(s)</p> <p>C1. Sketch of the tanks C2. Contour line sketch</p>	
D	<p>Route position information</p>	
E	<p>Public participation information</p> <p>E.1. Proof of site notice E.2. Written notices E.2.1. Landowners of adjacent land E.2.2. Landowners within 100 meters E.2.3. Councillor or community representative E.2.4. Municipality E.2.5 Organ of state E.3. Proof of advertisements E.3.1. Proof of newspaper advertisement E.3.2. Documents available on internet E.3.3. Background Information Document E.4. Communications to and from I&AP's E.5. Minutes of public &/or stakeholder meetings E.6. Comments and Responses Report E.7. Comments from I&AP on BA Report E.8. Comments from I&AP on amendments to BA E.9. Copy of potential I&AP register E.10. Comments from I&AP on application E.11. Other</p>	
F	<p>Water use license(s), SAHRA information, service letters from municipalities, water supply information.</p>	
G	<p>Specialist reports</p>	
H	<p>EMPr</p>	
I	<p>Other information</p> <p>I.1. Assessment methodology</p>	

Appendix A: Site plan(s)

A1. Location

A2. Site Plan/Footprint

Appendix B: Photographs

B1. Panorama area

Appendix C: Facility illustrations

C1.Sketch of the tanks

C2.Contour line and effluent system sketch

Appendix D: Route position information

Not applicable because it is not a linear Activity

Appendix E: Public participation information

- E.1. Proof of site notice
- E.2. Written notices
 - E.2.1. Landowners of adjacent land
 - E.2.2. Landowners within 100 meters
 - E.2.3. Councillor or community representative
 - E.2.4. Municipality
 - E.2.5. Organ of state
- E.3. Proof of advertisements
 - E.3.1. Proof of newspaper advertisement
 - E.3.2. Documents available on internet
 - E.3.3. Background Information Document
- E.4. Communications to and from I&AP's
- E.5. Minutes of public &/or stakeholder meetings
- E.6. Comments and Responses Report
- E.7. Comments from I&AP on BA Report
- E.8. Comments from I&AP on amendments to BA
- E.9. Copy of potential I&AP register
- E.10. Comments from I&AP on application
- E.11. Other

Appendix E.1: Proof of site notice

See attached photographs

- 1. East Gate**
- 2. Main Gate**
- 3. Nitrate's Control Room**
- 4. Nitrate's Offices Notice board**

Appendix E.2: Written notices

Appendix E.2.1: Landowners of adjacent land

The BID was sent to a number of neighbouring industries. Note however that these are all tenants of Heartland (The AECI Property Company) and are not actual land owners

Also see appendix E.4

Appendix E.2.2: Landowners within 100 meters

The BID was sent to a number of neighbouring industries. Note however that these are all tenants of Heartland (The AECI Property Company) and are not actual land owners

See appendix E.4

Appendix E.2.3: Councillor or community representative

Councillor Darren Bergman responded requesting to be kept informed.

No response to further contacts.

Copy of the BAR will be made available to him.

Appendix E.2.4: Municipality

Copy of the BAR will be delivered to them by hand.

Appendix E.2.5: Organ of state

The nature of Modderfontein factory and this site is that there is no specific organ of state concerned as indicated in this Basic Assessment.

Appendix E.3: Proof of advertisements

Appendix E.3.1: Proof of newspaper advertisement

See attached;

Copy of Notice

- **Advert in Bedford View & Edenvale News**
- **Advert in Kempton Express**

Appendix E.3.2: Documents available on internet

BID is available at the Web link below

<http://www.willchem.co.za>

Projects

Nitric Acid

Appendix E.3.3: Background Information Document

Copy attached

Appendix E.4: Communications to and from I&AP's

Responses received from:

- 1. Cllr. Darren Bergman**
- 2. Mr. Robbie Vermont**
- 3. Mrs. Joyce Abrahams**

Appendix E.5: Minutes of public &/or stakeholder meetings

- 1. Due to the low key nature of the project and the limited interest it was considered unnecessary to hold any Public meetings.**
- 2. However a meeting was held on 12th April 2013 with CAER committee members Robbie Vermont and Joyce Abrahams to explain the Draft BAR and listen to note any comments.**

Appendix E.6: Comments and Responses Report

Two requests to be kept informed were received.

Only one comment on the concept was received from Joyce Abrahams.

Appendix E.7: Comments from I&AP on Basic Assessment Report

A meeting was held on 12th April 2013 with CAER committee members Robbie Vermont and Joyce Abrahams to explain the Draft BAR and listen to note any comments.

A number of questions we asked and answered but no negative comments were made.

The following comments were received from;

1. Mrs. Joyce Abrahams

1.1. That the Tanks are constructed of durable material and design, which require low maintenance.

Response: The tanks & piping will be mad of Stainless steel

1.2. That a walled bunded area is constructed around the Tanks to contain any spillage.

Response: Included in the design concept

1.3. That should any spillage occur, effective measures are in place to ensure that there is no environmental damage.

Response: Incorporated in the bund concept

1.4. That an efficient level alarm system is in place in the Storage Tanks to ensure that they do not overflow.

Response: To be included in the design (see EMP)

Appendix E.8: Comments from I&AP on amendments to BA

At the time of writing this is a new BA report and no amendment are currently required.

Appendix E.9: Copy of potential I&AP register

See attached I&AP Register

Name	Organisation	Contact	Email
Mr. Robbie Vermont	CAER	082 800 3704/ 011 608 2693	robbiev@netactive.co.za
Mrs. Joyce Abrahams	CAER	082 677 9260 / 011 882 2957	iracacia@vodamail.co.za
Cllr. Darren Bergman	CAER / JhB Metro	082 456 8636 / 011 483 1291	Bergman.darren@gmail.com

Appendix E.10: Comments from I&AP on application

The following comments were received from;

2. Ms Joyce Abrahams

2.1. That the Tanks are constructed of durable material and design, which require low maintenance.

Response: The tanks & piping will be mad of Stainless steel

2.2. That a walled bunded area is constructed around the Tanks to contain any spillage.

Response: Included in the design concept

2.3. That should any spillage occur, effective measures are in place to ensure that there is no environmental damage.

Response: Incorporated in the bund concept

2.4. That an efficient level alarm system is in place in the Storage Tanks to ensure that they do not overflow.

Response: To be included in the design (see EMP)

Appendix E.11: Other

No other items

Appendix F: Water use license(s), SAHRA information, service letters from municipalities, water supply information.

Not Applicable

Appendix G: Specialist reports

Not required

Appendix H: EMPr

See attached Draft EMPr

Appendix I1: Assessment method

Appendix I: Other