

Rule 908.b(8) Operating Plan

**LINN Operating Inc.
O-29 Centralized E&P Waste
Management Facility**

OA Project No. 014-1565

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PROCEDURES
SOP 029 WATER IMPOUNDMENT
FACILITY PUMPING/RECEIVING
FROM FIELD OPERATIONS

1.0 SCOPE

- Pumping water **from** O29 Water Impoundment Facility **to** facilities (map and pipeline maps attached, 7.0 and 8.0) within all company water infrastructure/facilities.
- Pumping water **to** O29 Water Impoundment Facility **from** all (map and pipeline maps attached, 7.0 and 8.0) company infrastructure/facilities.
- Water impoundment will be operating under Garfield County's Land Use Change Permit for Materials Handling.

2.0 REQUIREMENTS

- Employees and contractors shall be trained and qualified in the safe operations of tank storage/transfer systems, water impoundment procedures, PLC systems, tanks monitoring systems, high pressure water pumps and sub/surface lines. All supervisors will have a minimum of 3 years training in pertinent SOP/ERP and waste water management

3.0 APPLICABLE DOCUMENTS

- Site ERP/SOP
- Linn Operating Inc Safety Handbook
- JSA and all Applicable Documents on all job actions
- Material Safety Data Sheet (MSDS)
- Site P&ID drawings
- Field water site facility and pipeline maps

4.0 MATERIALS AND EQUIPMENT

- Field transfer pump system
- Field inlet piping system
- PLC system
- ERP response trailer

5.0 SAFETY AND ENVIRONMENT

- The operator will be familiar with and utilize the appropriate Personal Protective Equipment (PPE) related to the tasks being performed. It will be noted that PPE must be worn at all times. If you have questions regarding safety or PPE consult supervision. PPE includes:
 - Hard Hat ANSI Z 89.1
 - Safety Glasses ANSI Z 87.1
 - Steel Toed Boots ANSI Z 41.1

- Fire Retardant Clothing (FRC)
- Gloves
- Personal H₂S gas monitor
- Additional PPE Equipment as identified in MSDS or in this procedure

NOTE: Stop Work Authority: Any employee who feels that the condition or situation of the work environment is unsafe or the normal operating conditions have changed, has the authority to Stop Work. Work stoppage: contact supervisor concerning unsafe conditions and await further instructions.

- Facility will be monitored with a fluid level monitor and leak detection device within area collection sump pump, tracking all fluctuation of the fluid levels. Level monitors will be interfaced with existing automation alarm system in the event of unstable fluid levels. All level data will be logged and kept on the automation system.
- In the event of fluids release adherence to current ERP (attached) is mandatory. Landowner must be notified of all spills.
- Water impoundment will be fenced and gated with approved wildlife fence for security.
- The facility will be visually inspected by Linn employees on a weekly, monthly, and semi-annual basis. Visual Data gathered on the appropriate forms will be logged and stored at Linn's field office.
- Facility Stormwater plan to be included in Linn's SWMP and inspection schedule.
- Proposed Reclamation plan.

6.0 PROCEDURE: Water TO facility from field site.

- Inform water supervisor of intention to pump with information as to what time and from where and expected duration and quantity.
- Procedures after authorization is given from water supervisor,
 - Personnel, minimum of two will include supervisor with 3 years training in SOP, waste water management, will walk entire surface systems inspecting all fittings and valves to ensure all are in good working condition in proper alignment for water receipt.
 - Verification will be transmitted to all parties involved with job that pumping operations can commence.
 - All valves will be locked in proper alignment before and after job.
 - After pumping operations commence from production pad, verification that water to impoundment has been established will be reported back to pumping crew on production pad.
 - All volumes will be cross checked after completion of the job to insure all water was pumped to destination.
 - Records of all jobs including date, location, time and quantity will be kept and reported to proper personnel.

6.1 PROCEDURE: Water FROM tank facility to field site.

- Inform water supervisor of intention to pump with information as to what time and from where and expected duration and quantity.
- Procedures after authorization is given from water supervisor,
 - Personnel, minimum of two will include supervisor with 3 years training in SOP, waste water management, will walk entire surface systems inspecting all fittings and valves to ensure all are in good working condition in proper alignment for pumping to field site
 - Verification will be transmitted to all parties involved with job that pumping operations can commence
 - Pump system will be put on line and onsite flow volumes will be confirmed and field site will be notified
 - All valves will be locked in proper alignment before and after job.
 - After pumping operations commence from water impoundment facility, verification that water to field site has been established will be reported back to pumping crew on water impoundment facility including inflow volumes.
 - All volumes will be cross checked after completion of the job to insure all water was pumped to destination.
 - Records of all jobs including date, location, time and quantity will be kept and reported to proper personnel.

NOTE

Document all actions on daily JSA

<<END OF PROCEDURE>>

8.0 Area Map:

9.0 Area Pipeline System:

10.0 Proposed site

11.0 Proposed Reclamation Plan

Linn Operating, Inc.
O-29 Water Impoundment Facility
Weekly Operations Checklist

Date _____

Operator _____

Water Impoundment	Comments
Water Level - Visual Inspection	
Oil Sheen or Debris - Visual Inspection	
Record Meter Values – In/Out	
Fencing & Wildlife Netting - Visual Inspection	
Piping - Visual Inspection	

Notes:

Date _____

Operator _____

Date _____

Operator _____

Linn Operating, Inc.

O-29 Water Impoundment Facility

Semi-Annual Operations Checklist

Date _____

Operator _____

Water Impoundment Visual Inspection	Comments
Inspections Prior to Draining the Facility	
Water Level – Visual Inspection	
Oil Sheen or Debris – Visual Inspection	
Record Meter Values – In/Out	
Fencing & Wildlife Netting – Visual Inspection	
Weeds – Visual Inspection	
Berms – Visual Inspection	
Liner – Visual Inspection	
Piping – Visual Inspection	
Valves – Inspect/Operate	
Pump Oil Levels - Visual Inspection	
Odor – Detectable Level	
Stormwater BMPs – Visual Inspection	
General Housekeeping – Perform	
Inspections After Draining the Facility	
Liner – Visual Inspection	
Leak Detection – Inspect to Degree Accessible	
Unanticipated Accumulation of Solids?	
Other Debris?	
Notes:	

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