

**CHEVRON PRODUCTS CO.
SALT LAKE REFINERY
SALT LAKE CITY, UTAH**

**RESERVOIR WASTE MANAGEMENT AREA (RWMA)
ANNUAL INSPECTION CHECKLIST**

INSPECTED BY EARTHFAX ENGINEERING
MIDVALE, UTAH

INSPECTOR:
INSPECTION DATE:
PROJECT NO.:
WEATHER

SCHEDULE

In accordance with Module II, Section D, of Post Closure Permit No. UTD092029768, any deterioration or malfunctioning of the RWMA that may result in a threat to human health or the environment shall be remedied within seventy-two (72) hours. If the remedy requires more time, the Permittee shall submit to the Executive Secretary of the Utah Division of Solid and Hazardous Waste, before the expiration of the Seventy-two (72) hour period, a proposed time schedule for correcting the problem.

Prior to conducting the inspection, the previous inspection and corrective action forms will be reviewed to alert the inspector to items of special interest, and to identify trends in any corrective actions.

The original of this inspection form shall be stored at EarthFax Engineering. A copy shall be maintained at Chevron Products Co., Salt Lake Refinery. Another copy shall be submitted to the Executive Secretary of the Utah Solid and Hazardous Waste Control Board.

See the attached site plan of the RWMA for locations of specific inspection items. Attach additional sheets as necessary to describe damage or problems.

Purpose and Scheduling of Inspection:

- _____ Storm Event - Inspection required within 24 hours of precipitation in excess of .75 inches per 24 hours. Use official reports of the National Weather Service, located at the Salt Lake International Airport, as the weather station of record (II.D.4).
- _____ Annual RWMA cell inspection and inspection of all monitor wells (to be conducted as part of the annual groundwater sampling in July or August (II.D.6)).

Item	Yes	No	Comments
ACCESS - Has the access road been removed, blocked, or damaged?			
SECURITY - Is the security fencing in-place, intact, and operational? - Have the fencing or gates been damaged or breached?			
SIGNAGE - Are necessary signs or placards in-place, legible, visible, and undamaged?			
DRAINAGE STRUCTURES - Are surface drainage structures intact, undamaged, and operational? - Has runoff overflowed the structures?			

Item	Yes	No	Comments
CAP MATERIALS			
- Are there signs of surface erosion?			
- Are there signs of surface settlement or differential subsidence (survey as necessary)?			
- Are there any surface cracks?			
- Is the vegetation cover intact and uniform?			
- Are there any deep-rooted plants that may damage the low-permeability barriers?			
- Is there evidence of surface water ponding?			
- Are there new signs of physical damage to the cap materials?			
- Have burrowing animals damaged the cap?			

Item	Yes	No	Comments
EMBANKMENTS			
- Are there signs of surface erosion?			
- Are there signs of settlement?			
- Are there any surface cracks?			
- Is the vegetation cover intact and uniform?			
- Is there evidence of surface water ponding?			
- Is there evidence of slope failure?			
- Are there signs of bulging at the toe of slopes and embankments?			
- Are there new signs of physical damage to the embankments (including burrowing animals)?			

Item	Yes	No	Comments
<p>GROUNDWATER MONITORING WELLS (II.D.6a-e)</p> <ul style="list-style-type: none"> - Have any of the wells, locks, casings, aprons, or caps been damaged? - Are the cap lock systems in-place and operational? - Have the measuring points been damaged? - Is there evidence of sediment accumulation? - Are the annulus seals intact? - Are permanent dedicated pumps operational? - Are the wells accessible and visible? - Are the holding drums on-site and intact? - Measured depth to the bottom of each well (required annually, IV.D.2G). - Other 			

Item	Yes	No	Comments
SETTLEMENT MONUMENTS - Have any of the settlement monuments been damaged?			
- Are the settlement monuments visible (painted)?			
- Other			

Chevron Products Co., Salt Lake Refinery
RWMA Inspection Checklist
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Comments:

**CHEVRON PRODUCTS CO.
SALT LAKE REFINERY
SALT LAKE CITY, UTAH**

**LANDFILL WASTE MANAGEMENT AREA (LWMA)
ANNUAL INSPECTION CHECKLIST**

INSPECTED BY EARTHFAX ENGINEERING
MIDVALE, UTAH

INSPECTOR:
INSPECTION DATE:
PROJECT NO.:
WEATHER

SCHEDULE

Prior to conducting the inspection, the previous inspection and corrective action forms will be reviewed to alert the inspector to items of special interest, and to identify trends in any corrective actions.

The original of this inspection form shall be stored at EarthFax Engineering. A copy shall be maintained at Chevron Products Co., Salt Lake Refinery. Another copy shall be submitted to the Executive Secretary of the Utah Solid and Hazardous Waste Control Board.

See the attached site plan of the LWMA for locations of specific inspection items.

Attach additional sheets as necessary to describe damage or problems.

Purpose and Scheduling of Inspection:

_____ Annual LWMA cell inspection and inspection of all four monitor wells (to be conducted as part of the annual groundwater sampling in July or August (II.D.6)).

Item	Yes	No	Comments
ACCESS - Has the access road been removed, blocked, or damaged?			
SECURITY - Is the security fencing in-place, intact, and operational? - Have the fencing or gates been damaged or breached?			
SIGNAGE - Are necessary signs or placards in-place, legible, visible, and undamaged?			
DRAINAGE STRUCTURES - Are surface drainage structures intact, undamaged, and operational? - Has runoff overflowed the structures?			

Item	Yes	No	Comments
CAP MATERIALS - Are there signs of surface erosion?			
- Are there signs of surface settlement or differential subsidence (survey as necessary)?			
- Are there any surface cracks?			
- Is the gravel armor intact and uniform?			
- Are there any deep-rooted plants that may damage the low-permeability barriers?			
- Is there evidence of surface water ponding?			
- Are there signs of physical damage to the cap materials?			
- Have burrowing animals damaged the cap?			

Item	Yes	No	Comments
EMBANKMENTS - Are there signs of surface erosion? - Are there signs of settlement? - Are there any surface cracks? - Is the gravel armor intact and uniform? - Is there evidence of surface water ponding? - Is there evidence of slope failure? - Are there signs of bulging at the toe of slopes and embankments? - Are there signs of physical damage to the embankments (including burrowing animals)?			

Item	Yes	No	Comments
<p>GROUNDWATER MONITORING WELLS (ii.D.6a-e)</p> <ul style="list-style-type: none"> - Have any of the wells, locks, casings, aprons, or caps been damaged? - Are the cap lock systems in-place and operational? - Have the measuring points been damaged? - Is there evidence of sediment accumulation? - Are the annulus seals intact? - Are permanent dedicated pumps operational? - Are the wells accessible and visible? - Are the holding drums on-site and intact? 			

Item	Yes	No	Comments
SETTLEMENT MONUMENTS - Have any of the settlement monuments been damaged?			
- Are the settlement monuments visible (painted)?			
- Other			

Comments:

**CHEVRON PRODUCTS CO.
SALT LAKE REFINERY
SALT LAKE CITY, UTAH**

**RESERVOIR WASTE MANAGEMENT AREA (RWMA)
POST STORM EVENT INSPECTION LOG**

INSPECTED BY EARTHFAX ENGINEERING MIDVALE, UTAH

INSPECTOR:
INSPECTION DATE:
WEATHER:

Salt Lake Airport Weather Station Storm Details That Required Inspection:

_____ Reported Date of Storm Event

_____ (Y/N) Sustained Wind Speed in Excess of 80 mph

_____ (Y/N) Precipitation in excess of 0.75 inches per twenty-four (24) time period

INSPECTION OBSERVATIONS

ITEM	OK	DAMAGED	DETAILS OR PROPOSED ACTION
Landfill Perimeter Toe			
Top of Embankment			
Rutting on Side-Slopes			
Vegetated Cover			
Cover Drainage Network			
Monitor Wells			
Security Fence and Signs			
Other Observations			

COMMENTS: