

Stormwater Industrial Routine Facility Inspection Report

General Information			
Facility Name	Caldwell Industrial Airport		
NPDES Tracking No.	IDR 050007		
Date of Inspection	March 25, 2021	Start/End Time	10:00 AM / 3:00 PM
Inspector's Name(s)	Ashley Newbry, Emily Johnson		
Inspector's Title(s)	Assistant City Engineer, Environmental Engineer (City of Caldwell Stormwater Program)		
Inspector's Contact Information	anewbry@cityofcaldwell.org, ejohnson@cityofcaldwell.org		
Inspector's Qualifications	SWPPP Primary and Secondary Contacts		
Weather Information			
Weather at time of this inspection?			
<input type="checkbox"/> Clear <input checked="" type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snow <input type="checkbox"/> High Winds <input type="checkbox"/> Other: _____ Temperature: _____			
Have any previously unidentified discharges of pollutants occurred since the last inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:			
Are there any discharges occurring at the time of inspection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: Stormwater was observed discharging at outfall facilities AP-02, AP-04, AP-05, AP-06, and AP-07 during the facility inspection. Inspection occurred during and after a rain event.			

Control Measures

#	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Maintenance or Corrective Action Needed and Notes
1	AP-02 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Small amount of trash accumulated in and around the BMP should be cleaned up. Rill erosion along the Aviation Way side of the pond, should be stabilized with vegetation or riprap.
2	Ap-04 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Replacement	Contributing drainage area contains exposed soil, which is eroding into the pond basin. Area along the fence, near the southeast corner of the pond is eroding to create a gully. Exposed areas, in particular the southeast corner need to be stabilized to prevent erosion into the pond basin. Trash accumulated in and around the BMP should be cleaned up.
3	AP-06 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Minor accumulation of sediment in and around inlet pipe, should be removed.
4	AP-08 Vegetated Channel	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Replacement	Contributing drainage area contains exposed soil, showing minor rill erosion into the swale. These areas should be stabilized with vegetation. The bottom of the channel has eroded and is no longer vegetated. Without vegetation to stabilize the exposed soils, the BMP is not operating as designed and has to potential to increase sediment loading, instead of reducing. The channel bottom must be re-vegetated. Trash accumulated around the BMP should be cleaned up.

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Maintenance or Corrective Action Needed and Notes
5	AP-09 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Soils around pond are not fully vegetated, soils should be stabilized to prevent soil from eroding into the pond.
6	AP-10 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	Soils around pond are not vegetated, soils should be stabilized to prevent soil from eroding into the pond.
7	AP-11 Pond	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
8	AP-SB01 Drain field	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
9	AP-SB02 Drain field	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
10	Refuel Runoff Capture	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A
11	Pump Cover	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Maintenance <input type="checkbox"/> Repair <input type="checkbox"/> Replacement	N/A

Areas of Industrial Materials or Activities Exposed to Stormwater

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective and operating)?	Maintenance or Corrective Action Needed and Notes
1	Material loading/unloading and storage areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.
2	Vehicle / Aircraft/ Equipment maintenance areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.
3	Fueling areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Silverhawk fueling station: onsite spill kit was not visible at the time of the inspection, must be placed so that it is easily accessible and clearly marked.
4	Outdoor vehicle and equipment washing areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	No outdoor vehicle or equipment washing observed during the inspection. No designated areas for these activities identified.
5	Waste handling and disposal areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No single waste handling or disposal area, instead inspected individual tenants for the presence of proper waste disposal receptacles (garbage cans with lids). Specific tenants observed having insufficient or no receptacles are identified in the Non-Compliance section below.
6	Erodible areas/construction	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Erodible areas: especially areas near the structural BMPs have exposed soils, these areas should be stabilized, preferably through vegetation establishment. Construction: multiple areas of construction as new hangars are being constructed. Evidence of concrete washout directly onto the soil was

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective and operating)?	Maintenance or Corrective Action Needed and Notes
				observed, this should be cleaned up promptly and a concrete washout must be used going forward.
7	Non-stormwater/ illicit connections	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	No non-stormwater or illicit connections were identified during the inspection.
8	Salt storage piles or pile containing salt	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	Airport does not use salt.
9	Dust generation and vehicle tracking	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Minimal sediment tracking from construction areas.
10	Apron areas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No maintenance needed at this time.
11	Areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	See Non-Compliance section below for description of tenant-specific concerns and recommendations.

Discharge Points

<p><u>Airport Outfall AP-01</u> Facility Condition: Normal, exterior only inspected Outfall Structure: Concrete Manhole Outfall Type: Direct Discharge Number of contributing catch basins: One (1) Discharges To: East Caldwell Drain Other Contributing Water Source: Groundwater Notes: The AP-01 manhole lid is difficult to lift, especially during rain. A small day-lighted section of the East Caldwell Drain is visible directly upstream of AP-01. The City of Caldwell anticipates that this site will be replaced during the Ustick Road widening project, set to take place in 2021.</p> <p><u>Airport Outfall AP-02</u> Facility Condition: Functional, maintenance required Outfall Structure: Concrete Overflow Box Outfall Type: Sedimentation Pond with Overflow Number of contributing catch basins: Two (2) Discharges To: East Caldwell Drain Other Contributing Water Source: None Notes: The majority of AP-02 is stabilized with vegetation. During the dry weather season, the dense areas of vegetation should be trimmed back. Rill erosion is occurring on the side slope of the pond along Aviation Way, this area needs to be stabilized with additional vegetation or riprap.</p> <p><u>Airport Outfall AP-03</u> Facility Condition: Normal (exterior only inspected) Outfall Structure: Concrete Manhole Outfall Type: Direct Discharge Number of contributing catch basins: Three (3) Discharges To: East Caldwell Drain Other Contributing Water Source: Groundwater, intermittent agricultural runoff Notes: The AP-03 manhole lid is difficult to lift, especially during rain. Due to the difficulty of removing the manhole lid, this site is not sampled or accessed easily. Look into possible retrofits that would make this site more accessible for</p>
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monitoring and inspections. Overgrowth and erosion from the canal bank onto the manhole lid was observed, the manhole surface should be cleaned off.

Airport Outfall AP-04

Facility Condition: Functional, maintenance required

Outfall Structure: Concrete Overflow Box

Outfall Type: Sedimentation Pond with Overflow

Number of contributing catch basins: Eleven (11)

Discharges To: East Caldwell Drain

Other Contributing Water Source: Groundwater

Notes: The majority of the soils around AP-04 and its two unpaved catch basin inlets are exposed and prone to erosion. As a result, AP-04 receives a higher sediment load than necessary. Clean gravel should be added around the two unpaved catch basin inlets. The contributing area's exposed soils should be vegetated to significantly reduce erosion. Rill erosion is occurring along the Aviation Way fence, into the west corner of the pond; this drainage path should be stabilized with riprap to prevent further erosion. The pond needs to be dredged to remove accumulated fine sediment.

Airport Outfall AP-05

Facility Condition: Functional

Outfall Structure: Concrete Manhole

Outfall Type: Direct Discharge

Number of contributing catch basins: Two (2)

Discharges To: East Caldwell Drain

Other Contributing Water Source: Groundwater, intermittent agricultural runoff (in collection manhole trough)

Notes: AP-05 is frequently observed to have standing water in the collection trough at the bottom of the manhole.

Stormwater samples are not collected from the trough, but from the pipe entering the manhole from the northwest, which receives drainage from the Aviation Way borrow ditch.

Airport Outfall AP-06

Facility Condition: Functional, minor maintenance required

Outfall Structure: Concrete Overflow Box

Outfall Type: Sedimentation Pond with Overflow

Number of contributing catch basins: Twenty-eight (28)

Discharges To: East Caldwell Drain

Other Contributing Water Source: Groundwater

Notes: AP-06 has relatively uniform vegetation growth and minimal erosion of the side slopes. AP-06 has historically been observed discharging groundwater during dry weather seasons, indicating a significant groundwater contribution to the pond. Sediment was observed in and around the inlet pipe, the pipe and the area around the inlet should be cleaned out to remove the sediment.

Airport Outfall AP-07

Facility Condition: Functional

Outfall Structure: Concrete Manhole

Outfall Type: Direct Discharge

Number of contributing catch basins: Two (2)

Discharges To: East Caldwell Drain

Other Contributing Water Source: Possibly seasonal groundwater

Notes: AP-07 discharges frequently, and is most frequently sampled by staff as the representative for the direct discharge outfalls. AP-07 is distinct from the other outfalls because its tributary drainage area is paved and contains the Airport's larger fueling station. Stormwater samples from this outfall have elevated levels of TSS; a possible source is the small unpaved parking area. To minimize the potential impact of this area, it should be paved or graveled (not with road mix).

Airport Outfall AP-08

Facility Condition: Functional, maintenance required

Outfall Structure: Vegetated Swale and CMP Culvert to Borrow Ditch

Outfall Type: Direct Discharge

Number of contributing catch basins: Seven (7)

Discharges To: Indian Creek

Other Contributing Water Source: Intermittent agricultural runoff

Notes: AP-08 tributary lines cross the full width of the Airport site, flowing from northeast to southwest. From the upstream portion, AP-08 receives agricultural runoff; the downstream section is a vegetated swale, which receives runoff from the paved taxiway surfaces. Active discharge from this site is infrequent, occurring once during the historical MSGP monitoring,

when the storm event occurred during the irrigation season. The contributing drainage area around the vegetated swale contains exposed soil, rill erosion is occurring in these areas. The bottom of the channel has also eroded and is no longer vegetated. The channel bottom must be re-vegetated.

Airport Outfall AP-09

Facility Condition: Poor, significant maintenance required

Outfall Structure: Culvert beneath fence and Aviation Way

Outfall Type: Sedimentation Pond with Overflow

Number of contributing catch basins: Nine (9)

Discharges To: Indian Creek

Other Contributing Water Source: None

Notes: AP-09 is relatively large and shallow, 2 feet deep or less, and shaped like a fish. The bottom of the pond is cobble, and cobbles have been used to temporarily stabilize the borrow ditch tributary to the fence culvert. This BMP has experienced significant erosion and deterioration. Additional assessment and observation should be conducted to determine the best course of action to stabilize the pond, contributing drainage area, and outfall.

Airport Outfall AP-10

Facility Condition: Functional, maintenance required

Outfall Structure: Borrow Ditch to AP-09

Outfall Type: Sedimentation Pond with Overflow to Borrow Ditch

Number of contributing catch basins: One (1)

Discharges To: East Caldwell Drain

Other Contributing Water Source: None

Notes: AP-10 is relatively small and shallow. The BMP was not initially vegetated or lined with gravel, but routine facility inspections determined the contributing areas were eroding significantly into the basin. Cobble was placed in the basin and the outfall borrow ditch to temporarily stabilize the area. Additional assessment and observation should be conducted to determine the best course of action to stabilize the pond, contributing drainage area, and outfall.

Airport Outfall AP-11

Facility Condition: Functional

Outfall Structure: Shared Borrow Ditch

Outfall Type: Sedimentation Pond with Overflow

Number of contributing catch basins: None

Discharges To: Indian Creek

Other Contributing Water Source: Agricultural runoff

Notes: AP-11 is a large and deep seepage pond, fully stabilized with river cobbles. Due to the high potential for agricultural runoff and roadway runoff from Linden Avenue, the discharge point was moved upstream to the site of the pond overflow in January 2020. Minor rill erosion has been observed at the pond inlet, this area will continue to be monitored during routine and quarterly inspections, and maintenance recommendations made when needed.

Non-Compliance

Vintage Airframes, LLC (4411 Aviation Way)

Aircraft engine is sitting outside the hangar, without any containment in place to collect residual fluids or stormwater runoff from the component. Industrial maintenance components, such as the engine, should be stored inside the hangar or with properly installed containment to prevent contamination of stormwater runoff.



Silverhawk Aviation Hangar (4505 Aviation Way)

Chemical drums and containers are being stored outdoors without secondary containment. One of the containers observed during the inspection is painted with the words “Used Oil Full”. All chemical drums and containers must be stored indoors. If a variance has been granted by the Airport Manager to store these containers outdoors, secondary containment is required. The onsite dumpster lid is missing, should be replaced.



Silverhawk Site Stationary Self-Serve Refueling Station

Spill kit was not observed at or near the pump. Sites which are not attended 24 hours must display signage and provide access to the spill kit at all times. If the site does not have a spill kit, they need to obtain one. If the spill kit is not in immediate view of the pump, provide signage.



Aero Builders Hangar (4611 Aviation Way)

Piece of equipment (possibly a heating unit) is being stored outside the hangar. It should be stored inside the hangar; if variance has been granted to store outside the hangar, containment should be provided to prevent the equipment from coming in contact with stormwater. Staining on the pavement indicates potential maintenance/industrial activities have been occurring outside the hangar, all such activities should be conducted inside.



Performance Air Inc. (4919 Aviation Way)

The drums and containers being stored outdoors need secondary containment, or to be stored indoors. The container just to the right of the door (visibly contains a fluid) is an excellent example of secondary containment!



Skydown Skydiving Hangar and Fuel Tanker

Mobile refueling operation must carry a spill kit on the tanker at all times. Evidence of maintenance and chemical storage outside of the hangar. Maintenance must be conducted in the hangar where spills will not be exposed to stormwater. If a variance has been granted by the Airport Manager allowing chemical drums and containers to be stored outside, secondary containment is required. Should consider garbage service (i.e. a covered dumpster) for the site.



Solid Rock LLC Construction Area (between 507 and 519 Dishman Place)

All chemical drums and containers must be stored under covering and/or with secondary containment measures in place. Garbage service is recommended to address the trash accumulated onsite.



Construction Area (between 510 and 518 Dishman Place)

Need to install a concrete washout area, observed areas where concrete was washed out directly onto the ground.



Hangar 903

Mostly empty paint containers, among other trash, have been placed in the grass/dirt across the taxiway from the hangar. These materials should be cleaned up and properly disposed of.



Additional Control Measures

Drainage channel along Linden Avenue (left) and bank along Aviation Way (right), near the Linden-Aviation intersection, are both showing signs of significant erosion. Both of these areas should be stabilized.



Notes

Flight Doctor West (515 Taildragger Place)

This tenant is storing a considerable amount of materials outside, in the space between their hangar and another tenant’s hangar. At this time, there did not appear to be maintenance or chemical storage in this area, however this area should be monitored to ensure no stormwater pollutants are being stored outside the hangar.



Midfield Aviation Stationary Self-Serve Refueling Station

Spill kit is onsite and easy to find, great job! Excellent secondary containment as well.



CERTIFICATION STATEMENT

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Print name and title: Emily Johnson, Environmental Engineer

Signature: _____ **Date:** 04/02/2021