



January 31, 2017

Mr. Darren Mulkey
Alaska Department of
Environmental Conservation
555 Cordova Street
Anchorage, AK 99501-2617

Letter Report
Former Bulk Fuel Storage Facility
Product Recovery Certification
Anchorage, Alaska

Dear Mr. Mulkey:

AECOM is pleased to submit this letter report describing the product recovery efforts at the Former Bulk Fuel Storage Facility, Ted Stevens Anchorage International Airport (AIA), Anchorage, Alaska. AECOM conducted oversight for product recovery efforts on October 14, 2016, conducted by Aircraft Services International Group (ASIG).

AECOM conducted the product recovery oversight at three locations during this event to include wells DM-31, DM-34, and DM-35. Well casing and monument condition was recorded as well as water and product levels. Oversight also included documentation of the procedures used to collect the product.

Attachment A, Figure 1, depicts the well locations and initial product thickness measurements, as of October 14, 2016. Attachment B, Table 1 depicts tabulated data regarding overall well condition and water and product level measurements.

Product recovery included measurement of free product utilizing a fuel-water interface probe to calculate initial volumes of free product. Volumes were calculated utilizing well casing diameter and total product interval measurements prior to and upon completion of the product recovery.

Product was recovered from the designated well locations using a manual bailer system. Bailers were gradually lowered into each well in such a manner as to minimized agitation at the fuel-water interface. Wells were bailed until fuels were removed as completely as possible, or until efforts recovered less fuel than could be accurately calculated. Fuel measurements/volume calculations were made prior to and after completion of the bailing activities from each well location. Additionally, ASIG collected product volume estimates from purge buckets, using a color cut paste, upon completion of bailing from each well.

Wells DM-31, DM-34 and DM-35 were successfully accessed during that time. In September 2011, well DM-18 was abandoned and re-drilled as part of the upkeep of the product recovery efforts onsite, and this location was included in future events. During the 2016 event, DM-18 was found to contain less than 0.25 feet (3 Inches) of product and, per regulatory approval, was not included in this recovery event.

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During the 2016 event, wells DM-31, DM-34 and DM-35 were included in the product recovery efforts and the following volumes of product were removed:

Well Location	Volume Removed
DM-31	0.579 Gallons
DM-34	1.138 Gallons
DM-35	0.286 Gallons
Total Fuel Volume Removed	2.03 Gallons

It is the opinion of AECOM that product recovery efforts conducted by ASIG personnel during the October 12, 2016 event, meet the applicable standards and regulatory requirements regarding product recovery efforts.

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If you have any questions regarding the product recovery activities on this project, or this letter report, please do not hesitate to call AECOM at (907) 562-3366.

Sincerely,
AECOM

A handwritten signature in black ink, appearing to read 'Ryan Rapuzzi', with a long horizontal stroke extending to the right.

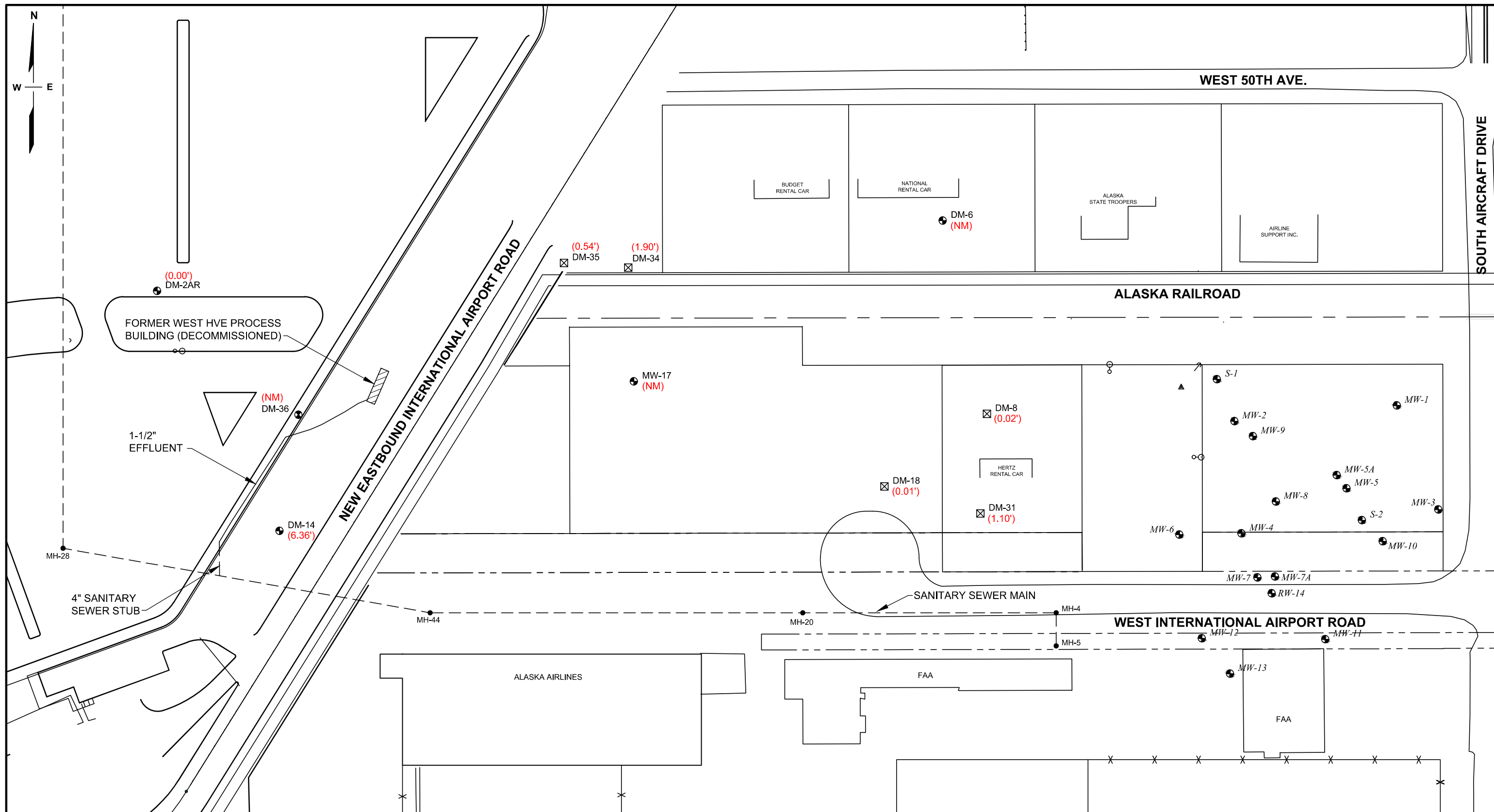
Ryan Rapuzzi
Project Manager

Attachments: Attachment A - Figure 1 - Well locations and Product Thickness Measurements
Attachment B - Table 1 - Well Condition and Product Level Measurements

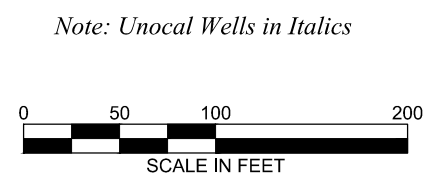
ATTACHMENT A

Figure 1 - Well Locations and Product Thickness Measurements

G:\PROJECTS\60418572 ASIG PLANT 4\01 WORKING DRAWINGS\ASIGFIG1.DWG; Revised 1/31/2017 1:37:34 PM



- LEGEND**
- ☒ EXTRACTION WELL LOCATIONS
 - MONITORING WELL LOCATIONS
 - (3.4') THICKNESS OF PRODUCT IN FEET (NM = NO MEASURABLE PRODUCT)
 - SANITARY SEWER MANHOLE
 - ▨ HVE PROCESS BUILDING (DECOMMISSIONED)



AIRCRAFT SERVICE INTERNATIONAL GROUP FORMER BULK STORAGE FACILITY		AECOM
WELL LOCATIONS AND PRODUCT THICKNESS MEASUREMENTS		
ANCHORAGE, ALASKA		
JOB NO: 60418572	DRAWN: ELK	FIGURE 1
DATE: JANUARY 2017	FILE: ASIGFIG1.DWG	

ATTACHMENT B

Table 1 - Well Condition and Product Level Measurements

TABLE 1
ASIG Former Bulk Fuel Storage Facility
Product Level Measurements

Well ID	Date	Sample Time	Depth to Product (Feet bgs)	Depth to Water (Feet bgs)	Product Thickness (Feet)	Total Well Depth	Well Condition
DM-8	10/14/2016	9:41	52.49	52.51	0.02	58.08	2" - Good
DM-18	10/14/2016	9:37	46.70	46.71	0.01	54.35	2" - Good
DM-6	10/14/2016	9:52	NM	NM	NM	4.36	Sanded in- No Water or Product
DM2AR	10/14/2016	10:27	NA	51.38	NA	64.04	No Product
DM-14	10/14/2016	10:41	47.61	53.97	6.36	6.36	Well Full of Product - No Water
DM-31	10/14/2016	9:41	54.50	55.6	1.10	65.25	4" - Good
DM-34	10/14/2016	10:17	47.51	49.41	1.90	54.15	4" - Good
DM-35	10/14/2016	10:38	47.98	48.52	0.54	61.80	4" - Good

Notes: bgs = below ground surface.